

## Cannery Campus Rates Guide

### Cannery Campus Rates and Cost Recovery Program

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**Purpose:** The rates guide is intended to provide our customers with information regarding rate setting methodologies, rate structures, and the billing processes used by the Data Center.

**Overview:** The Department of Technology Services, Cannery Campus (DTS Cannery Campus) provides information technology (IT) services to other departments of the State of California, primarily Health and Human Services Agency departments. The Data Center operates on a fee-for-service basis, and is completely self-supporting. All costs are recovered through charges to customer agencies. The DTS Cannery Campus does not receive general fund appropriations.

**Contents:** This document is comprised of four major components, as follows.

### I. Rate Process

[Establishments of Rates](#)  
[Allocation of Costs](#)  
[Software Guidelines](#)

[Forecasting](#)  
[Depreciation Procedures](#)

### II. Cost Centers

Description of the services offered by cost center, includes the measurement, description, and rate for each service offering

### III. Invoicing/Billing

Describes the billing invoice components, billing invoice review, and the billing adjustment processes.

Definition of the User Codes and Account Codes structure, use, and purpose.

Admin fees/DGS fees

# **I. RATE PROCESS**

## ***ESTABLISHMENT OF RATES***

The Data Center categorizes costs into separate groups or cost centers that are directly related to each service provided to customers. The Data Center attempts to recover cost center costs through its billing structure. Specifically, the Data Center develops customer billing rates by:

- Forecasting costs that must be recovered through user charges.
- Assigning these costs to cost centers for which billing rates are developed.
- Determining an appropriate rate structure for charging customers.

In order to recover costs of services provided, the Data Center has two primary responsibilities:

- Identify and justify costs of providing its services.
- Establish fair and reasonable rates to recover these costs.

The amount billed to a customer each month for a specific cost center is based on:

- Measured usage,
- Flat Monthly Fee-for-Service, and/or
- Direct-charges.

Annually, the DTS Cannery Campus determines whether the current billing rates and forecasted revenues will be sufficient to recover each cost center's forecasted costs during the upcoming budget year. A 'preliminary Rates Schedule is presented for PAC (Policy Advisory Council) members and customers, which includes forecasts of cost center expenses and utilization, potential new billing rates, as well as potential billing impact on customers based on a selected prior month of utilization.

## ***FORECASTED UTILIZATION***

To develop the cost center rates, the DTS Cannery Campus must forecast its customers' budget year utilization for each cost center. This is achieved by analyzing past and present utilization levels, and factoring in the predicted growth for each cost center. Predicted growth is based on historical trends and customer projections.

Customers are asked to provide the DTS Cannery Campus with their workload data three times a year. These projections in the CICS, TSO, ADABAS, and Batch workload areas are factored by each department's workload profile. A workload profile documents the average resources consumed for an average job for a particular department. From these, consumption trends for each cost center are developed then compared to historical trends.

Cost center managers (managers charged with providing a cost center service) prepare and/or review utilization forecasts.

## ***ALLOCATION OF COSTS***

There are three types of estimated expenses recovered by the DTS Cannery Campus: Direct Expenses, Indirect Expenses, and Dedicated Expenses as listed in the following table:

<b>Expenses</b>	<b>Characteristics</b>
Direct Expenses	Expenses attributable to a specific cost center.
Indirect Expenses	Expenses that can not be attributed to a specific cost center are allocated to an administrative overhead cost center and then prorated back to the processing cost centers (based on their percentage to total direct expenses).
Dedicated Expenses	Specific customer purchase requests for hardware, software, telephone lines, etc. which are provided to a single customer. Customers are directly billed for their dedicated expenses as a pass-through cost.

After determining whether an expense is direct, indirect, or dedicated, the expense is further categorized into one of four components of the rate package, as follows:

<b>Expense Component</b>	<b>Characteristics</b>
Hardware Expenses	Hardware expenses are assigned to a cost center for various types of IT equipment necessary to support the service provided under that cost center.  The DTS Cannery Campus depreciates expenses related to the acquisition of nonexpendable property in accordance with the State Administrative Manual (SAM) as well as direction from applicable federal regulations. Due to changing technology, there are cases where the useful service life of an item has been determined to be less than guideline. The DTS Cannery Campus maintains supporting documentation for those items.
Software Expenses	Software expenses are for software products that support the operation of a particular cost center. See the "SOFTWARE SUPPORT CHARGE GUIDELINES" section of this document.
Personnel Expenses	All personnel are allocated based on the functions they perform within the cost centers that they support. All administrative personnel and specific managerial personnel (DTS Cannery Campus-wide) are allocated to the administrative overhead cost center since their work cannot be assigned to specific cost centers.
Miscellaneous Expenses	These expenses are for all other costs the DTS Cannery Campus incurs during the year (i.e., facilities rent, general consumable supplies, utilities, etc.) and are assigned proportionally to all cost centers.

Cost center managers are responsible for managing cost center expenditures in accordance with the rate structure.

### **DEPRECIATION PROCEDURES**

To comply with state and federal guidelines, hardware and software purchases are amortized or depreciated using the following rules:

#### **Hardware Depreciation**

To stay in compliance with federal regulations (45 CFR Subpart G), IT hardware purchases are depreciated if the following three criteria are met: the unit acquisition is over \$5,000, has a minimum useful life of one year, and is used to conduct State business. Specifically, the depreciated price includes all expenses associated with the acquisition of the hardware except for interest expense. Useful life (for depreciation purposes) is based on documented industry standards for the specific IT hardware or federal Internal Revenue Service (IRS) guidelines for depreciation. Due to the enhanced acceleration of technology improvements, a vast majority of IT hardware is obsolete in 36 to 48 months. Therefore, depreciation of specific categories or items is analyzed on a case-by-case basis utilizing manufacturers and/or industry

recommendations of useful life. Some examples of depreciation standards currently in use by the DTS Cannery Campus are listed below:

Type of Equipment	No. of Months
Timberline (Tape Transport)	36 months
Direct Access Storage Devices (DASD)	36 months
Mainframe (CPU) Complexes	48 months
Routers	36 months

To be consistent with IRS guidelines, all IT hardware depreciation is based on a straight-line calculation with \$0 salvage value. All hardware upgrades to extend useful life are treated in the same manner as the original hardware purchase.

### **Software Depreciation**

IT software purchases and/or expenses are for software products supporting the operation of the cost center. Each software purchase over a unit acquisition cost of \$5,000 is depreciated over its useful life. Specifically, the depreciated price includes all expenses associated with the acquisition of the software, except for interest expense. The depreciation methodology used for software is consistent with IRS guidelines to allow for the depreciation of all software over 36 months. All IT software depreciation is based on a straight-line calculation with \$0 salvage value.

### **SOFTWARE CHARGING GUIDELINES**

The DTS Cannery Campus uses two methods to recover for customer software costs. Periodic monitoring of software usage will be performed to ascertain that the proper cost recovery mechanism is being used.

#### **Software utilized by three or more customer departments**

Customer requested mainframe software costs are recovered via the existing CPU (CC 001) rates if there have been a minimum of three requests for a specific software product.

Customer requested mainframe software products costing more than \$50,000 must have Policy Advisory Council (PAC) approval before the costs for such shared software is included in the CPU cost center.

If the purchase price or annual maintenance for a customer requested software product is less than \$50,000, PAC approval is not required.

#### **Software utilized by fewer than three customer departments**

Customer requested mainframe software products used by one or two customer departments are billed directly to the requesting department(s).

Customer departments can be billed for the software using either the RFA or memo bill process. The billing method used is specified by the customer in the customer service request.

An administrative fee of five percent, not to exceed \$850 per transaction, will be charged in addition the all costs directly associated with the software purchase.

## II. COST CENTERS

The cost centers in the following tables are grouped according to service areas.

### ***COST CENTER 001 - CPU***

Attribute	Description
COST ALLOCATION	CPU charges recover all components of CPU cost center resources. Components include hardware, software, personnel, miscellaneous, and overhead. Hardware in this cost center includes portions of the CPU mainframes and associated components. Software allocated to this cost center is in support of the operating system.
MEASUREMENT	The unit of measurement for this resource is per CPU hour.
UTILIZATION	MVS CPU utilization is captured per job step. The CPU utilization is composed of System Request Block (SRB) processor time and Task Control Block (TCB) processor time. CPU utilization is measured at the individual user level by account code per job step for batch and TSO. For database systems, such as ADABAS, IDMS, and CICS, CPU utilization is measured at the monitor level by department rather than by individual user functions. The DTS Cannery Campus has implemented alternative measurement algorithms to capture utilization at the account code level for individual database users.
CHARGES	<p>The System Management Facility (SMF) Monitor captures MVS CPU utilization information and an SMF record is written for each transaction at the job step level. The SMF record is passed to the MVS Integrated Control System (MICS) billing system where the SMF records are formatted, sorted, summarized, processed, and billed at the CPU resource rate. The billing data is also sorted by department ID and account code. Processor charge (PC) equals processor time (PT) multiplied by the CPU rate (R). <math>PC = PT \times R</math>.</p> <p>The DTS Cannery Campus' CPU rate is based on the IBM 3090-600S CPU hour. The CPU rate is normalized to other CPUs based on SRM constants determined and set by manufacturers. This normalization factor is applied to the DTS Cannery Campus' base CPU rate to compute the corresponding CPU rate for other CPUs.</p>

INVOICE CATEGORIES associated with COST CENTER 001:

Invoice Category	Invoice Category Definition	Unit	Rate Basis for Normalization	Normalization Factor	Normalized CPU Standard Billing Rate (2064-116)	Actual CPU	Cost Center
1101	CPU-Batch (S1)	Hour	\$1,917.07	1.2388	\$1,547.00	2064-1C7	001
1103	CPU-TSO (S1)	Hour	\$1,917.07	1.2388	\$1,547.00	2064-1C7	001
1105	CPU-Batch (S2)	Hour	\$1,871.20	1.2092	\$1,547.00	2064-1C8	001
1106	CPU-TSO (S2)	Hour	\$1,871.20	1.2092	\$1,547.00	2064-1C8	001
1108	ADABAS CPU	Hour	\$1,917.07	1.2838	\$1,547.00	2064-1C7	141
1109	CICS CPU	Hour	\$1,917.07	1.2388	\$1,547.00	2064-1C7	216
1110	IDMS CPU	Hour	\$1,917.07	1.2388	\$1,547.00	2064-1C7	145
8597	Non DTS Cannery Campus Application Access – DMV	User ID	\$5.00				100
8598	Non DTS Cannery Campus Application	User ID	\$5.00				100

Invoice Category	Invoice Category Definition	Unit	Rate Basis for Normalization	Normalization Factor	Normalized CPU Standard Billing Rate (2064-116)	Actual CPU	Cost Center
	Access – SCO						

**ROLL-UP COST CENTER 100 (associated with 001) –NON DTS Cannery Campus APPLICATION ACCESS**

Attribute	Description
COST ALLOCATION	Non DTS Cannery Campus Application Access costs are not separate from CPU expenses (Cost Center 001). The expenses of the Non DTS Cannery Campus Application Access are part of the overall total CPU expenses. This cost center has been set up to enable DTS Cannery Campus to differentiate between the Non DTS Cannery Campus application accesses separately.
MEASUREMENT	The unit of measurement for this resource is per user ID (Application Access), per month.
CHARGES	The administrative charge is \$5.00 per user, per month. Utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The data captured includes, ID, user name, account code, billing month, and year. The DTS Cannery Campus billing system will produce a summary page, within the customer's invoice package, listing application access user ID charges by account code.

INVOICE CATEGORY associated with COST CENTER 100:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8597	Non DTS Cannery Campus Application Access – DMV	USER ID	\$5.00	100
8598	Non DTS Cannery Campus Application Access - SCO	USER ID	\$5.00	100

**ROLL-UP COST CENTER 141 (associated with 001) – ADABAS CPU**

Attribute	Description
COST ALLOCATION	ADABAS CPU costs are not separate from CPU expenses (Cost Center 001). The expenses of the ADABAS CPU are part of the overall total CPU expenses. This cost center has been set up to enable the DTS Cannery Campus to track ADABAS CPU utilization separately.
MEASUREMENT	The unit of measurement for this resource is per CPU hour.
CHARGES	The DTS Cannery Campus does not have separate specific CPU rates for each processor type. The DTS Cannery Campus CPU rate is based on the IBM 3090-600S CPU hour. The CPU rate is normalized to other CPUs based on SRM constants determined and set by manufacturers. The normalization factor is computed based on the ratio of the different CPU SRM constants. This normalization factor is applied to the DTS Cannery Campus' base CPU rate to compute the corresponding CPU rate for other CPUs. ADABAS CPU utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The ADABAS CPU charge is the ADABAS CPU processor time multiplied by the CPU rate.

**ROLL-UP COST CENTER 145 (associated with 001) – IDMS CPU**

Attribute	Description
COST ALLOCATION	IDMS CPU costs are not separate from CPU expenses (Cost Center 001). The expenses of the IDMS CPU are part of the overall total CPU expenses. This cost center has been set up to enable the DTS Cannery Campus to track IDMS CPU utilization separately.
MEASUREMENT	The unit of measurement for this resource is per CPU hour.
CHARGES	The DTS Cannery Campus does not have separate specific CPU rates for each processor type. The DTS Cannery Campus CPU rate is based on the IBM 3090-600S CPU hour. The CPU rate is normalized to other CPUs based on SRM constants determined and set by manufacturers. The normalization factor is computed based on the ratio of the different CPU SRM constants. This normalization factor is applied to the DTS Cannery Campus' base CPU rate to compute the corresponding CPU rate for other CPUs. IDMS CPU utilization is captured and recorded in an external billing file to be processed by DTS Cannery Campus' MICS billing system. The IDMS CPU charge is the IDMS CPU processor time multiplied by CPU rate.

**ROLL-UP COST CENTER 216 (associated with 001) – CICS CPU**

Attribute	Description
COST ALLOCATION	CICS CPU costs are not separate from CPU expenses (Cost Center 001). The expenses of the CICS CPU are part of the overall total CPU expenses. This cost center has been set up to enable the DTS Cannery Campus to track CICS CPU utilization separately.
MEASUREMENT	The unit of measurement for this resource is per CPU hour.
CHARGES	The DTS Cannery Campus does not have separate specific CPU rates for each processor type. The DTS Cannery Campus CPU rate is based on the IBM 3090-600S CPU hour. The CPU rate is normalized to other CPUs based on SRM constants determined and set by manufacturers. The normalization factor is computed based on the ratio of the different CPU SRM constants. This normalization factor is applied to the DTS Cannery Campus' base CPU rate to compute the corresponding CPU rate for other CPUs. The CICS CPU charge is the CICS CPU processor time multiplied by the CPU rate.

**COST CENTER 008 – TAPE DEVICE CONNECT TIME**

Attribute	Description
COST ALLOCATION	Tape I/O connect charges recover all components of cost center resources. Components include hardware, some software, personnel, miscellaneous, and overhead expenses. Hardware in this cost center includes portions of the automated cartridge system, tape drives, and controllers. Software includes the Tape Management System, etc.
MEASUREMENT	The unit of measurement for this resource is per tape I/O connect second.
UTILIZATION	Tape I/O connect time measures the total amount of time a device is connected to a channel path while I/O requests are being issued for data transfer or device control operations.
CHARGES	Tape I/O connect time is captured by the SMF monitor and an SMF record is written for the total I/O connect time at the account code level. The SMF records are passed to the MVS Integrated Control System billing system where they are formatted into accounting records and the I/O connect time charge for the job is determined. CHARGE = TAPE I/O CONNECT TIME X RATE

INVOICE CATEGORY associated with COST CENTER 008:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
1407	Tape Device Connect Time	Second	\$0.029	008

***COST CENTER 016 – DISK DEVICE CONNECT TIME***

Attribute	Description
COST ALLOCATION	DISK utilization charges recover all components of cost center resources. Components include hardware, personnel, and overhead expenses. Hardware includes portions of various types of controllers and disk storage devices. Hardware expenses are divided between this cost center – 50 percent allocation, and cost center 300 (Disk Storage) – 50 percent allocation.
MEASUREMENT	The unit of measurement for this resource is per disk I/O connect second.
UTILIZATION	Disk utilization is measured by the total amount of time a device was connected to a channel path during data transmission. Data transmission is data transfer or device control operations.
CHARGES	The SMF monitor captures disk utilization resource information and an SMF record is written for each transaction at the account code level. This SMF record is then passed to the MICS billing system where the records are summarized by account code and charged for at the appropriate rate. CHARGE = DISK I/O CONNECT TIME X RATE

INVOICE CATEGORIES associated with COST CENTER 016:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
1215	Disk Device Connect Time-ADABAS	Second	\$0.014	142
1216	Disk Device Connect Time- CICS	Second	\$0.014	217
1217	Disk Device Connect Time– IDMS	Second	\$0.014	146
1507	Disk Device Connect Time– BATCH	Second	\$0.014	016
1508	Disk Device Connect Time– TSO	Second	\$0.014	016

***ROLL-UP COST CENTER 142 (associated with 016) – DISK DEVICE CONNECT TIME-ADABAS***

Attribute	Description
COST ALLOCATION	ADABAS disk I/O costs are not separate from disk I/O expenses (Cost Center 016). The expenses of the ADABAS disk I/O are part of overall total disk I/O expenses. This cost center has been set up to enable the DTS Cannery Campus to track ADABAS disk I/O utilization separately.
MEASUREMENT	The unit of measurement for this resource is per disk I/O connect second.
CHARGES	The DTS Cannery Campus does not have separate specific ADABAS disk I/O rates for each storage device type. The DTS Cannery Campus has a single disk I/O connect rate. ADABAS disk I/O utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The ADABAS disk I/O connect charge is the amount of ADABAS disk I/O connect seconds multiplied by current disk I/O connect rate.



**ROLL-UP COST CENTER 146 (associated with 016) – DISK DEVICE CONNECT TIME-IDMS**

Attribute	Description
COST ALLOCATION	IDMS disk I/O costs are not separate from disk I/O expenses (Cost Center 016). The expenses of the IDMS disk I/O are part of overall total disk I/O expenses. This cost center has been set up to enable the DTS Cannery Campus to track IDMS disk I/O utilization separately.
MEASUREMENT	The unit of measurement for this resource is per disk I/O connect second.
CHARGES	The DTS Cannery Campus does not have separate specific IDMS disk I/O rates for each storage device type. The DTS Cannery Campus has a single disk I/O connect rate. IDMS disk I/O utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The IDMS disk I/O connect charge is the amount of IDMS disk I/O connect seconds multiplied by current disk I/O connect rate.

**ROLL-UP COST CENTER 217 (associated with 016) – DISK DEVICE CONNECT TIME-CICS**

Attribute	Description
COST ALLOCATION	CICS disk I/O costs are not separate from disk I/O expenses (Cost Center 016). The expenses of the CICS disk I/O are part of overall total disk I/O expenses. This cost center has been set up to enable the DTS Cannery Campus to track CICS disk I/O utilization separately.
MEASUREMENT	The unit of measurement for this resource is per disk I/O connect second.
CHARGES	The DTS Cannery Campus does not have separate specific CICS disk I/O rates for each storage device type. The DTS Cannery Campus has a single disk I/O connect rate. The CICS disk I/O connect charge is the amount of CICS disk I/O connect seconds multiplied by current disk I/O connect rate.

**COST CENTER 020 –LINUX SERVICE**

Attribute	Description
COST ALLOCATION	This cost center recovers the costs associated with providing Linux services to customers. These costs include hardware, software, personnel and miscellaneous charges.
MEASUREMENT	The unit of measurement for this resource is based on the server category selected. Each Linux server comes with 5 GB of external storage.
CHARGES	Customers are billed based on quantity, Linux server category, and any additional options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options. Linux servers may be added or deleted in monthly processing intervals with 30 days advance notice to the DTS Cannery Campus.

INVOICE CATEGORIES associated with COST CENTER 020:

Invoice Category	Invoice Category Definition	Monthly Rate	Cost Center
8655	Linux Base Server	\$1,565.00	020
8656	Linux Lamp Server	\$1,925.00	020
8608	Linux Application Development Server	\$2,087.00	020
8608	Linux Database Server	\$2,403.00	020

ADDITIONAL OPTIONS associated with COST CENTER 020:

Options	Measurement	Monthly Rate
Enterprise Storage	GB	\$18.35
Additional Processing Power	2% per Month	\$735.00

### ***COST CENTER 038 - PRINT***

Attribute	Description
COST ALLOCATION	Print charges recover all components of print cost center resources. Components include hardware, personnel, miscellaneous, and overhead expenses. The contract for both impact and laser printing includes forms cost. The DTS Cannery Campus still retains some hardware and software to handle critical internal printing.
MEASUREMENT	The unit of measurement for this resource is per page.
UTILIZATION	Pages printed locally on laser printers and impact/laser pages printed by print outsourcing vendor.
CHARGES	Pages printed resource information is captured by the SMF monitor. This record is then passed to the MICS billing system where the records are formatted, summarized, and charged for at the appropriate pages printed. The pages printed rate is the number of pages printed (K) multiplied by the rate (R) equals the charge. Charge = K x R

INVOICE CATEGORIES associated with COST CENTER 038:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
3111	Print-Impact Printer	Page	\$0.029	038
3112	Print-Laser Printer	Page	\$0.029	038

### ***COST CENTER 041 – MICROFICHE-ORIGINAL***

Attribute	Description
COST ALLOCATION	Microfiche-original frames charges are made to recover the expenses of the Microfiche cost center.
MEASUREMENT	The unit of measurement for this resource is per fiche.
UTILIZATION	Utilization billed is the actual number of original fiche produced (including index and header).
CHARGES	The microfiche charge is the number of original fiche multiplied by the Microfiche-Original rate.

INVOICE CATEGORY associated with COST CENTER 041:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
3602	Microfiche-Original	Fiche	\$1.0326	041

### ***COST CENTER 042 – MICROFICHE-DUPLICATE***

Attribute	Description
COST ALLOCATION	Microfiche-Duplicate charges are made to recover the expenses of the Microfiche duplicate cost center.
MEASUREMENT	The unit of measurement for this resource is per Duplicate Fiche.
UTILIZATION	Utilization billed is the actual number of Duplicate Fiche produced.
CHARGES	The Microfiche-Duplicate charge is the number of Duplicate Fiche multiplied by the Duplicate Fiche rate.

INVOICE CATEGORY associated with COST CENTER 042:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
3603	Microfiche-Duplicate	Fiche	\$0.1014	042

### ***COST CENTER 049 – TAPE MOUNT***

Attribute	Description
COST ALLOCATION	Mount charges are made to recover all components of cost center resources. Components include personnel, hardware, miscellaneous, and overhead.
MEASUREMENT	This unit of measurement for this resource is per tape mount.
UTILIZATION	MVS tape mount utilization is measured per job step.
CHARGES	MVS tape mount utilization information is captured by the SMF Monitor and an SMF record is written for each transaction at the job step level. The mount charge is the number of tape mounts multiplied by the mount rate.

INVOICE CATEGORIES associated with COST CENTER 049:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
1400	Tape Mounts	Mount	\$1.50	049

### ***COST CENTER 070 – SECURE SERVER CERTIFICATE***

Attribute	Description
COST ALLOCATION	Secure Server Certificate will recover the cost of certificates.
MEASUREMENT	The unit of measurement for this resource is the cost of the certificate.
CHARGES	Secure Server Certificate charges are billed via RFA based on the number of certificates ordered.

INVOICE CATEGORY associated with COST CENTER 070:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8553	Secure Server Certificate	Per Certificate	Cost of Certificate	070

### ***COST CENTER 076 – INTERNET DESIGN & DEVELOPMENT***

Attribute	Description
COST ALLOCATION	Internet Design & Development service charges recover DTS Cannery Campus staff support costs for this service.

MEASUREMENT	The unit of measurement for this resource is per hour of staff time devoted to each specific project.
CHARGES	Internet Design & Development charges are billed via RFA or memo bill based on the hours worked.

INVOICE CATEGORY associated with COST CENTER 076:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8616	Internet Design & Development	Hour	\$150.00	076

### ***COST CENTER 077 – LISTSERV EMAIL DISTRIBUTION***

Attribute	Description
COST ALLOCATION	LISTSERV Email Distribution services charges recover all components of cost center resources. Components include hardware, software, personnel and miscellaneous.
MEASUREMENT	The unit of measurement for this resource is one list.
CHARGES	Listserv utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The charge is billed at \$157.00 per list per month.

INVOICE CATEGORY associated with COST CENTER 077:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8617	LISTSERV Email Distribution	LIST	\$157.00	077

### ***COST CENTER 078 –SHARED INTERNET SQL HOSTING***

Attribute	Description
COST ALLOCATION	Shared Internet SQL hosting service charges recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs.
MEASUREMENT	The unit of measurement for this resource is per database instance per month.
CHARGES	Shared Internet SQL hosting services utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The charge is \$127.00 per SQL database (DB) instance per month.

INVOICE CATEGORY associated with COST CENTER 078:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8618	Shared Internet SQL Hosting	DB Instance	\$127.00	078

### ***COST CENTER 079 –ASSIGNED INTERNET HOSTING SERVICE***

Attribute	Description
COST ALLOCATION	Assigned Internet Hosting services charges recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs.

MEASUREMENT	The unit of measurement for this resource is per web server.
CHARGES	Assigned Internet Hosting service utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The Assigned Internet/Web Hosting Service charge is billed at \$2,056.00 per web server per month.

INVOICE CATEGORY associated with COST CENTER 079:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8619	Assigned Internet Hosting Category 1	Web Server	\$2,056.00	079
8625	Category 2	Web Server	\$2,714.00	079
8641	Category 3	Web Server	\$3,001.00	079
8642	Category 4	Web Server	\$3,691.00	079

### ***COST CENTER 080 – SHARED INTERNET HOSTING***

Attribute	Description																
COST ALLOCATION	Shared Internet Hosting services charges recover all components of cost center resources. Components include hardware, software, personnel, and miscellaneous costs.																
MEASUREMENT	The unit of measurement for this resource is per web site per month. The base price includes up to 250MG of storage and 10GB of data transfer.																
CHARGES	<p>Shared Internet Hosting services utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The Shared Internet Hosting Services charge is billed at \$193.00 per web site per month which includes up to 250MG storage and 10GB of data transfer.</p> <p>Additional storage and data transfer is available in addition to the monthly base price. Additional charges will be incurred incrementally as follows:</p> <p>Additional Storage:</p> <table> <tr> <td>250-500 MB</td><td>\$ 97.00</td></tr> <tr> <td>500 MB-1 GB</td><td>\$193.00</td></tr> <tr> <td>1.0-1.25 GB</td><td>\$386.00</td></tr> <tr> <td>1.25-1.50 GB</td><td>\$483.00</td></tr> </table> <p>Additional Data Transfer:</p> <table> <tr> <td>10- 25 GB</td><td>\$193.00</td></tr> <tr> <td>25- 50 GB</td><td>\$386.00</td></tr> <tr> <td>50-100 GB</td><td>\$579.00</td></tr> <tr> <td>100 GB +</td><td>service upgrade required</td></tr> </table>	250-500 MB	\$ 97.00	500 MB-1 GB	\$193.00	1.0-1.25 GB	\$386.00	1.25-1.50 GB	\$483.00	10- 25 GB	\$193.00	25- 50 GB	\$386.00	50-100 GB	\$579.00	100 GB +	service upgrade required
250-500 MB	\$ 97.00																
500 MB-1 GB	\$193.00																
1.0-1.25 GB	\$386.00																
1.25-1.50 GB	\$483.00																
10- 25 GB	\$193.00																
25- 50 GB	\$386.00																
50-100 GB	\$579.00																
100 GB +	service upgrade required																

INVOICE CATEGORY associated with COST CENTER 080:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8615	Shared Internet Hosting	Web Site	\$193.00	080

### ***COST CENTER 081 –STATISTICAL INTERNET REPORTING SERVICE***

Attribute	Description
COST ALLOCATION	Statistical Internet Reporting services charges recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs. Provides customers with standard monthly statistics on their web sites
MEASUREMENT	The unit of measurement for this resource is per report.
CHARGES	Statistical Internet Reporting services utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The charge is billed at \$47.53 per web site per month.

INVOICE CATEGORY associated with COST CENTER 081:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8622	Statistical Internet Reporting Service	Report	\$47.53	081

### ***COST CENTER 082 – WEBSPHERE APPLICATION SERVER SERVICE***

Attribute	Description
COST ALLOCATION	Websphere Application Server Service (WAS) charges (both test and production models) recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs. The server hardware, operating system, web software (IIS), and network connectivity are maintained by the DTS Cannery Campus. The content and customer applications are maintained by the customer.
MEASUREMENT	The unit of measurement for this resource is per application.
CHARGES	Websphere Application Server Service utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The charge is billed at \$1,195.54 per application per month.

INVOICE CATEGORY associated with COST CENTER 082:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8629	Production Websphere Application Server–Category 1	Application	\$1108.43	082
8645	Production Websphere Application Server–Category 2	Application	\$1160.15	082
8623	Production Websphere Application Server–Category 3	Application	\$1,195.54	082
8646	Production Websphere Application Server–Category 4	Application	\$1435.75	082
8624	Test Websphere Application Server–Category 1	Application	\$512.68	082
8647	Test Websphere Application Server–Category 2	Application	\$580.07	082
8648	Test Websphere Application Server–Category 3	Application	\$597.21	082
8649	Test Websphere Application Server–Category 4	Application	\$717.88	082

### ***COST CENTER 083 –SECURE TRANSPORT SERVICES***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	Secure Transport Services charges recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs. Provides for secure transport of files through the Internet to the DTS Cannery Campus and to other third party customers or business processes.
MEASUREMENT	The unit of measurement for this resource is per user account and Gigabyte used per month.
CHARGES	Secure Transport Services utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The charge is billed at \$55.35 per user account per month with 1GB utilization per month. Utilization charges will be assessed for each fraction amount over each additional GB and be charged the base rate each time. Windows client option available for one time charge of \$255.00

INVOICE CATEGORY associated with COST CENTER 083:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Monthly Rate</b>	<b>Cost Center</b>
8628	Secure Transport Services	User Account	\$55.35	083

### ***COST CENTER 150 – DEDICATED HARDWARE***

Dedicated hardware is customer equipment that is purchased/leased or rented through the DTS Cannery Campus.

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is for equipment acquired through the DTS Cannery Campus specifically per customer request (using the CSS Service Request system). This type of expense incurs no overhead allocation; all costs are directly passed through to the customer (department) for which the equipment is dedicated. This cost is noted in the Hardware/Software Inventory file and the user is billed from the file on a monthly basis for equipment being rented/leased (MR/ML) or purchased by installment payments (IP). Equipment being purchased outright (OP) is billed to the customer via the Request for Adjustment (RFA) process or Memobill process and is subject to a five percent administrative handling fee, with a maximum charge of \$850.00 per document.
CHARGES	Customer equipment is not loaded into the DTS Cannery Campus' hardware/software file until the DTS Cannery Campus receives verification from the installation vendor. The equipment may not be billed until sometime after the installation of the equipment. In this case, the customer will receive a back bill for their new equipment along with their regular monthly bill.

INVOICE CATEGORY associated with COST CENTER 150:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8504	Dedicated Hardware		Actual Cost plus 5% Admin Fee	150

### ***COST CENTER 151 – DEDICATED SOFTWARE***

Dedicated software is customer software that is purchased/leased or rented through the DTS Cannery Campus.

Attribute	Description
COST ALLOCATION	This cost center is for customer software acquired through the CSS Service Request system. All costs incurred are directly passed through to the department to which the software is dedicated. Once installed, a record of the software is placed on the Hardware/Software file and the customer is billed directly from the file on a monthly basis for software being rented/leased (MR/ML) or purchased by installment payments (IP). Software being purchased outright is billed to the customer via the RFA process, or the Memo bill process, and is subject to a five percent administrative handling fee with a maximum charge of \$850.00 per document.
CHARGES	Customer software is not loaded into the DTS Cannery Campus' hardware/software file until the DTS Cannery Campus receives verification from the installation vendor. The software may not be billed until sometime after the installation. The customer may receive a back bill for their new software along with their regular monthly bill.

INVOICE CATEGORY associated with COST CENTER 151

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8505	Dedicated Software		Actual Cost plus 5% Admin Fee	151

### ***COST CENTER 155 – EXCHANGE SERVICES***

Attribute	Description
COST ALLOCATION	Exchange services charges recovered all components of cost center resources. Components include hardware, software, personnel, miscellaneous, and overhead expenses. Hardware includes various servers.
MEASUREMENT	The unit of measurement for this resource is per user.
CHARGES	Charges for Exchange Services are based on user charges.

INVOICE CATEGORIES associated with COST CENTER 155:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8574	Exchange 5.5 Service	User	\$13.37	155
8576	Blackberry Service	User	\$2.38	155



Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8575	SMTP Relay Service	IP address	\$10.39	155
8573	Exchange 2003 Service:	User		155
	Mailbox with 50MB Storage		\$9.38	
	Mailbox with 100MB Storage		\$10.71	
	Mailbox with 200MB Storage		\$13.37	
	Mailbox with 1GB Storage		\$34.65	
	Mailbox with 2GB Storage		\$61.22	

### ***COST CENTER 162 – HIPAA TRANSLATOR SERVICE***

Attribute	Description
COST ALLOCATION	HIPAA Translator Service charges recover all components of cost center resources. Components include personnel, hardware, software, and miscellaneous costs. The Translator is a software application used to convert data from one format to another. The Translator software can reformat a proprietary transaction format so that it complies with HIPAA.
MEASUREMENT	This service is limited to current HIPAA customers and is offered at a monthly subscription rate that recovers the full service cost.
CHARGES	Utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system.

INVOICE CATEGORIES associated with COST CENTER 162:

Invoice Categories	Invoice Category Definition	Unit	Rate	Cost Center
8602	HIPAA Translator Services		Subscription	162

### ***COST CENTER 169 – DHS/MIS PROJECT***

Attribute	Description
COST ALLOCATION	This cost center provides support for the California Department of Health Services / Management Information System (DHS/MIS) application that utilizes a separate MVS platform networked to the DTS Cannery Campus host mainframes. Support is for hardware and operating systems. These cost center charges recover all components of cost center resources. Components include hardware, software, personnel, miscellaneous, and overhead expenses. Hardware includes dedicated resources. System software includes MEDSTAT application software and others. Personnel costs include the personnel necessary to support the DHS/MIS system. Miscellaneous costs include floor space costs and utilities costs.
MEASUREMENT	This cost center charge is specific to and dependent upon the system configuration (hardware and software), level of support required, and environmental support factors. DTS Cannery Campus technical personnel provide customers with the hardware and software support for the DHS/MIS application.
CHARGES	The monthly management charge is based on the sum of the monthly hardware, software, personnel, miscellaneous, and overhead expenses. DHS is billed via RFA process with a single monthly charge. The monthly charge is evaluated on an annual basis.

### ***COST CENTER 176 – DEDICATED COMMUNICATION***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is used for telephone company (TELCO) install charges and to recover expenses, directly for other related TELCO vendor charges, such as time and materials charges.
CHARGES	Costs for dedicated communications do not include overhead but are subject to a five percent administration fee.

INVOICE CATEGORIES associated with COST CENTER 176:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8508	Dedicated Communication		Actual Cost plus 5% admin fee	176

### ***COST CENTER 178 – DEDICATED SUPPORT***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is used to track costs for IT-related professional service contracts procured at the request of specific customers.
CHARGES	Costs for dedicated support are passed directly to the requesting customer, the costs do not reflect any overhead, and are subject to a five percent administration fee.

INVOICE CATEGORIES associated with COST CENTER 178:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8533	Dedicated Support		Actual Cost plus 5% admin fee	178

### ***COST CENTER 180 – TRAINING CENTER***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	The Training Center cost center recovers all costs incurred by customer agencies and Departments for IT training.
MEASUREMENT	Rates are computed based on individual classes; however, costs allocated include training staff, facilities, and equipment.
CHARGES	Training services charges are added to the DTS Cannery Campus' billing system via the RFA and/or Memo bill process.

INVOICE CATEGORY associated with COST CENTER 180:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8522	Training Center	Per class	varies	180

### ***COST CENTER 181 – Learning PASS***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is treated as a dedicated data center service and was created to specifically track and account for Learning PASS Program funds.
CHARGES	The Learning PASS program is a self supporting training service available to all government employees. The training center customer is billed by the DTS Cannery Campus immediately after the customer places an order to purchase Learning PASSes. The training vendor does not bill the DTS Cannery Campus until the customer training is completed. The DTS Cannery Campus does not purchase Learning PASSes from the training vendor in advance.

INVOICE CATEGORY associated with COST CENTER 181:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8594	Learning PASS Program	Learning PASS	varies	181

### ***COST CENTER 170 – SERVER SUPPORT***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is being phased out and replaced with cost centers 200 – 203 for Windows servers and 208 – 211 for UNIX servers. The new cost centers provide for a selection of Windows and UNIX servers from small to large. Server support will continue to be provided under this cost center for existing customers until these servers can be migrated to the new cost centers based on server characteristics.
MEASUREMENT	The charge for this cost center is specific and dependent upon the system configuration; such as hardware and software), level of support required, and environmental support factors. DTS Cannery Campus technical personnel provide optimum hardware and software configurations and the most effective system design for specific applications.
CHARGES	Charges consist of hardware and software acquired to meet customer requests for server services (UNIX or Windows). Equipment is DTS Cannery Campus-owned and customers are billed via the MICS billing system. Alternative billing (by an RFA or Memobill) may be requested by the customer for server equipment or software installed at the customer site.

INVOICE CATEGORIES associated with COST CENTER 170:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8543	Server Support		Rate is customer & project specific	170

### ***COST CENTER 200 -- SERVER WINDOWS-CATEGORY 1***

Cost centers 200 through 203 provide support for customers who have specialized applications that utilize Windows platforms. Support is for the Windows hardware and operating system. Database support and enterprise storage options are available at an additional cost. The rates recover all the cost components of the cost center resources. Cost components include hardware, software, personnel, miscellaneous, and overhead expenses.

Attribute	Description
COST ALLOCATION	This cost center provides support for customers who have applications that utilize small Windows platforms, model DL380g2.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the small Windows server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 200:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8606	Server Windows-Category 1	Sm. Server	\$1,606.58	200

### ***COST CENTER 201 - SERVER WINDOWS-CATEGORY 2***

Attribute	Description
COST ALLOCATION	This cost center provides support for customers who have applications that utilize medium Windows platforms, model ML370g2.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the medium Windows server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 201:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8607	Server Windows-Category 2	Med. Server	\$1,975.13	201

### ***COST CENTER 202 - SERVER WINDOWS-CATEGORY 3***

Attribute	Description
COST ALLOCATION	This cost center provides support for customers who have applications that utilize medium-large Windows platforms, model ML530g2.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the medium-large Windows server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 202:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8608	Server Windows-Category 3	Med.-Lg. Server	\$2,261.93	202

### ***COST CENTER 203 - SERVER WINDOWS- CATEGORY 4***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center provides support for customers who have applications that utilize large Windows platforms, model ML570.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the large Windows server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

**Additional resource options for Windows Server categories 1–4 are as follows:**

<b>Options</b>	<b>Description</b>
Database Software	Billed at the market value cost plus DTS Cannery Campus overhead.
Database Support	Billed at \$410.20 per server per month.
Enterprise Storage	Billed at \$18.35 per GB per month

INVOICE CATEGORY associated with COST CENTER 203:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Monthly Rate</b>	<b>Cost Center</b>
8609	Server Windows-Category 4	Lg. Server	\$2,952.60	203

### ***COST CENTER 208 - SERVER UNIX-CATEGORY 1***

Cost centers 208 through 211 provide support for customers who have specialized applications that utilize UNIX platforms. Support is for the UNIX hardware and operating system. Database support and enterprise storage options are available at an additional cost. The rates recover all the cost components of the cost center resources. Cost components include hardware, software, personnel, miscellaneous, and overhead expenses.

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center provides support for customers who have applications that utilize small UNIX platforms, model P630.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the small UNIX server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 208:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Monthly Rate</b>	<b>Cost Center</b>
8611	Server UNIX-Category 1	Sm. Server	\$3,442.91	208

### ***COST CENTER 209 - SERVER UNIX-CATEGORY 2***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center provides support for customers who have applications that utilize

	medium UNIX platforms, model P670, 1 CPU.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the medium UNIX server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 209:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8612	Server-UNIX Category 2	Med. Server	\$4,281.61	209

### ***COST CENTER 210 - SERVER UNIX-CATEGORY 3***

Attribute	Description
COST ALLOCATION	This cost center provides support for customers who have applications that utilize medium large UNIX platforms, model P670, 2 CPU
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the medium-large UNIX server plus any additional selected options. (see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

INVOICE CATEGORY associated with COST CENTER 210:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8613	Server UNIX-Category 3	Med.-Lg. Server	\$6,351.53	210

### ***COST CENTER 211 - SERVER UNIX-CATEGORY 4***

Attribute	Description
COST ALLOCATION	This cost center provides support for customers who have applications that utilize large UNIX platforms, P670, 3 CPU.
MEASUREMENT	The unit of measurement for this resource is based on the rate in place for the large UNIX server plus any additional selected options.(see note below)
CHARGES	Customers are billed based on server size, storage capacity, databases and other options. A record containing this information is passed to the MICS billing system where the records are formatted, summarized, and charged at the appropriate rate. Itemized bills include Basic Rates, Quantity, and selected options.

**Additional resource options for UNIX Server categories 1–4 are as follows:**

Options	Description
Database Software	Billed at the market value cost plus DTS Cannery Campus overhead.
Database Support	Billed at \$1,230.60 per server per month.
Enterprise Storage	Billed at \$18.35 per GB per month

INVOICE CATEGORY associated with COST CENTER 211:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
8614	Server UNIX-Category 4	Lg. Server	\$8,421.44	211

### ***COST CENTER 251 – INSTALLATION/DEINSTALLATION***

Attribute	Description
COST ALLOCATION	Cost is billed based on the type of moves, adds, or changes (MACs) performed. This cost center consists of personnel costs in the Network Installation, Network Software Support, and the Telecommunication Management Services sections within the Engineering Division. These personnel plan, design, procure, and coordinate the MACs of network and remote site equipment and services.
UTILIZATION	The method for recovering costs is to charge the user for the MACs for equipment and services. The actual charge depends on the type of the MAC.
RATES FORMULATION	<p>The actual rate is based upon three factors. The three factors are Average Completion Time (ACT), Estimated Workload (EW), and hourly rate. The first factor, ACT, is based on historical data about the length of staff time each type of MAC requires. The EW is the second factor and is determined by the cost center manager. These values represent the estimate of the number of MACs by type for the fiscal year.</p> <p>The third and last factor, the hourly rate, is calculated through the use of a special formula. The cost center manager developed the formula.</p> $\text{Hourly Rate} = \frac{\text{Total TD MAC costs}}{\text{Total hours to complete EW}}$ <p>After this hourly rate has been calculated, it is applied (multiplied) against the ACT of each type of MAC. The product represents the chargeable rate for each MAC type.</p>
CHARGES	Please refer to corresponding Invoice Categories for Cost Center 251 for additional specific charge information.

#### **NOTE:**

**Sufficient lead-time must be provided to allow for a service request to be processed and completed within customer designated timeframes. If a submitted service request requires expedited services, there is an additional charge of \$350. Customers will be notified prior to any application of expedited service charges.**

INVOICE CATEGORIES associated with COST CENTER 251:

Invoice Category	Invoice Category Definition	Unit	Rate
8523	EQUIPMENT: MOVE/ADD/CHANGE	Device	\$1,100.00
8524	EQUIPMENT PURCHASE CONVERT/ ADD, DELETE MAINTENANCE	Site	\$300.00
8525	MISCELLANEOUS SITE REQUEST	Hour	\$75.00
8526	CIRCUIT INSTALL: 56K/T-1	Circuit	\$2,100.00
8587	CIRCUIT RELOCATE (SAME CENTRAL OFFICE)	Circuit	\$1,300.00

Invoice Category	Invoice Category Definition	Unit	Rate
8588	CIRCUIT DELETE	Circuit	\$400.00
8589	MOVE/ADD/DELETE PVC	PVC	\$375.00
8590	CHANGE CIR	PVC	\$300.00
8591	CIRCUIT INSTALL: DIAL-UP SERVICE	Circuit	\$700.00
8659	CIRCUIT INSTALL: T-3	Circuit	\$3,150.00
8660	CIRCUIT INSTALL: PRIVATE/INTERNET DSL	Circuit	\$900.00
8661	CIRCUIT INSTALL: CUSTOMER DSL	Circuit	\$500.00
8662	CIRCUIT RELOCATE: NEW CENTRAL OFFICE	Circuit	\$2,100.00
8663	CIRCUIT RELOCATE: SHARED/ HUB SITE	Circuit	\$2,200.00
8664	SNA: ADD/ CHANGE SNA DEFINITIONS	Site	\$75.00
8665	SNA: ADD/ SWAP/ RELOCATE SNA EQUIPMENT (1-2 DEVICES)	Site	\$400.00
8667	SNA: ADD/ SWAP/ RELOCATE SNA EQUIPMENT (3+ DEVICES)	Site	\$1,100.00
8668	SNA: ADD/SWAP SNA CONTROLLER	Device	\$1,100.00
8669	MOVE INSIDE WIRING	Request	\$150.00
8670	EXPEDITE FEE	Request	\$350.00

**Invoice Categories (associated with cost center 251) – EQUIPMENT RELATED MACs**

Attribute	Description
DESCRIPTION	Each site identified on a service request is subject to billing for equipment-related MACs, provided the equipment is on existing circuits only. Equipment installed at the time a circuit is established is covered in the circuit-related MAC charge.
UTILIZATION	Utilization billed is the actual number of MACs completed during the month as reported by the cost center manager.
CHARGES	The following is a list of specific billing criteria for miscellaneous and equipment related invoice categories.

**IP EQUIPMENT AND MISCELLANEOUS RELATED MACs:**

Invoice Category	MAC Type	Unit	Charges
8523	IP Equipment: Move/ Add/ Change	Device	\$1,100.00
8669	Move Inside Wiring	Request	\$150.00
8670	Expedite Fee	Request	\$350.00
8525	Miscellaneous Site Request	Hour	\$75.00

**Invoice Categories (associated with cost center 251) – CIRCUIT RELATED MACs**

Attribute	Description
DESCRIPTION	Connecting to the DTS Cannery Campus Wide Area Network (WAN) is accomplished typically via a circuit. The MAC activities related to these circuits are captured in this cost center.
UTILIZATION	Utilization billed is the actual number of circuit-related MACs completed during the month as reported by the cost center manager.
CHARGES	The following is a list of specific billing criteria for circuit related invoice categories.

**CIRCUIT-RELATED MACs:**



Invoice Category	Service Request Type	Unit	Charges
8526	Circuit Installation: 56K/T-1	Circuit	\$2,100.00
8659	Circuit Installation: T-3	Circuit	\$3,150.00
8660	Circuit Installation: Private/ Internet DSL	Circuit	\$900.00
8661	Circuit Installation: Customer DSL	Circuit	\$500.00
8591	Circuit Installation: Dial-Up Service	Circuit	\$700.00
8662	Circuit Relocate: New Central Office	Circuit	\$2,100.00
8587	Circuit Relocate: Same Central Office	Circuit	\$1,300.00
8663	Circuit Relocate: Shared/ Hub Site	Circuit	\$2,200.00
8588	Circuit Delete	Circuit	\$400.00
8589	Move/ Add/ Delete PVC	PVC	\$375.00
8590	Change CIR	PVC	\$300.00

**Invoice Categories (associated with cost center 251) – SNA SERVICE RELATED MACs**

Attribute	Description
DESCRIPTION	Each SNA Service related site identified on a service request is subject to billing for SNA Service related MACs, provided the equipment is on existing circuits only. SNA Service related equipment installed at the time a circuit is established is covered in the SNA Service MAC charge.
UTILIZATION	Utilization billed is the actual number of MACs completed during the month as reported by the cost center manager.
CHARGES	The following is a list of specific billing criteria for SNA Service related invoice categories.

**SNA SERVICE RELATED MACs**

Invoice Category	Service Request Type	Unit	Charges
8524	SNA: Move/ Change Equipment Maintenance	Site	\$300.00
8664	SNA: Add/ Change SNA Definitions	Site	\$75.00
8665	SNA: Add/ Swap/ Relocate SNA Equipment (1-2 DEVICES)	Site	\$400.00
8667	SNA: Add/ Swap/ Relocate SNA Equipment (3+ DEVICES)	Site	\$1,100.00
8668	SNA: Add/ Swap SNA Controller	Device	\$1,100.00

**NOTE:**

**Customer monthly invoices include a detailed report of the installation activities and the associated charges incurred for each request.**

**COST CENTER 265 – NETWORK PLANNING AND DESIGN**

Attribute	Description
COST ALLOCATION	This cost center consists of personnel cost for staff in the Network Services, Network Engineering, Network Systems and Telecommunication Management Services Sections. Staff are responsible for analysis, planning, design, and cost estimates of the most complicated local and wide area networks for connectivity, optimum performance, and compliance with appropriate IT architectural and security requirements.
UTILIZATION	The method of recovering these costs is to charge the requesting customer the amount of time required for the network analysis and design. The actual charge will be dependent upon the complexity of the network design. The average amount of time required for this network analysis and design is estimated to be

	approximately 10 hours.
RATE FORMULATION	<p>The actual rate is based upon three factors. The three factors are Planning and Design Time (PDT), EW, and hourly rate. The first factor, PDT, is based on the estimated length of staff time needed to develop a network design. The EW is determined by the cost center manager. This value represents the estimated number of requests for network planning and design services for the fiscal year. The third and last factor, the hourly rate, is calculated through the use of a special formula. The cost center manager has developed the following formula:</p> $\text{Hourly Rate} = \frac{\text{Total TD PDT costs}}{\text{Total hours to complete EW}}$ <p>After this hourly rate has been calculated, it is applied (multiplied) against the PDT. The result represents the chargeable rate for the planning and design service request.</p>
CHARGES	The hourly rate is \$150.00 per hour.

<b>NOTE:</b>
<b>Sufficient lead time must be provided to allow for a service request to be processed and completed within customer designated timeframes. If a submitted service request requires expedited service, <u>DTS Cannery Campus charges will be doubled.</u> (Customers will be notified prior to any application of expedited service charges.).</b>

INVOICE CATEGORY associated with COST CENTER 265:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8593	NETWORK PLANNING & DESIGN	Hour	\$150.00	265

### ***COST CENTER 266 - OPENVIEW***

Attribute	Description
DESCRIPTION	<p>DTS Cannery Campus uses HP OpenView Network Node Manager (NNM) for network fault management. NNM is the leading network fault management product for large, complex networks. NNM functions include:</p> <ul style="list-style-type: none"> <li>•Web-based interface</li> <li>•Customized views of the network</li> <li>•Physical maps of the network topography</li> <li>•Identifies problem devices and network services</li> <li>•Troubleshooting tools</li> <li>•Performance, availability, utilization, congestion, inventory, and exception reports</li> </ul> <p>This service offering expands the DTS Cannery Campus OpenView NNM implementation, adding secured access for our customers. Customers can choose to view their portion of the DTS Cannery Campus WAN</p>
MEASUREMENT	The rate for this service is \$1,500 per month.
CHARGES	Charges are billed via the recurring debit file

INVOICE CATEGORY associated with COST CENTER 266:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
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Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8595	OPENVIEW	Subscription	\$1,500.00	266

### ***COST CENTER 267 - CONCORD***

Attribute	Description
DESCRIPTION	DTS Cannery Campus utilizes Concord Communication's eHealth Network (formerly Network Health) for network performance analysis and capacity planning. eHealth Network performs low-impact monitoring of LANs, WANs, Frame Relay, routers, switches, and ATM, capturing key metrics for detailed analysis. Detailed, summary, and statistical data are stored in a data warehouse, providing a rich source of information for network analysis. eHealth Network also provides a wide array of prepared report formats in text and graphic styles. Reports may be used for establishing the baseline performance, monitoring change (overutilization, underutilization) from the baseline, planning for growth, detecting problem areas, and troubleshooting. Reports vary in complexity, from the technical analysis of selected devices to executive summaries of logical or physical segments of the entire network. This service offering will allow customer departments to produce reports to determine their network needs, as managed by DTS Cannery Campus.
MEASUREMENT	The rate for this service is \$500 per month.
CHARGES	Charges are billed via the recurring debit file.

INVOICE CATEGORY associated with COST CENTER 267:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8596	CONCORD	Subscription	\$500.00	267

### ***COST CENTER 270 - COMMUNICATIONS***

Attribute	Description
COST ALLOCATION	This Cost Center consists of all equipment, personnel and software costs required at the central and customer sites to provide and maintain access to the central site computers from local and remote processing sites. Hardware includes switches, routers, controllers, patch panels, sniffers, protocol converters, probes, firewalls, IDSs, and modem/line analysis and test equipment. Software includes network access software, ACF/VTAM, NCP, NCCF, etc., as well as OpenView, MVS Netview, Concord Health, and CiscoWorks for internal monitoring and managing of the network. Personnel consist of software specialists, communications help desk support, and information systems specialists. Communications costs are divided between costs to support NETWORK ACCESS and costs to support COMMUNICATION LINKS.
Network Charge	Network Access + Communication Link
Network Access	All circuits are charged a monthly network access rate based upon circuit type and bandwidth/speed. In addition, each LAN attached controller and dial-up circuit is charged a monthly network access charge. The access charge covers personnel services and operating expenses and equipment cost within the Engineering Division, including associated overhead cost, to maintain and support the DTS Cannery Campus wide area network.
Communication Link	The type of circuit (i.e. ADN, Frame Relay, ATM, and DSL), and bandwidth required determine the communication link charge. The communication link charge for ADN Circuits varies dependent upon bandwidth and distance between

	the Telco's nearest point of concentration to the customer site. Charges for Frame Relay and ATM circuits are dependent upon bandwidth and circuit size (i.e. DS0, T1, T3, etc.).
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### ***COST CENTER 272 – NETWORK ACCESS***

<b>Attribute</b>	<b>Description</b>
MEASUREMENT	All circuits are charged a monthly network access rate based upon circuit type and bandwidth/speed. In addition, each LAN-attached controller and dial-up circuit is charged a monthly network access charge. The access charge covers personnel services, operating expenses, and equipment costs within the Engineering Division, including associated overhead costs, to maintain and support the DTS Cannery Campus WAN.
UTILIZATION	All Frame Relay circuits, ATM circuits, non-Frame Relay (ADN), and ISDN Backup circuits are charged a monthly network access rate based on circuit type and bandwidth/speed. In addition, each LAN-attached controller and dial-up circuit are charged a monthly access charge.
CHARGES	The overall monthly network charges are based on the circuit type and configuration. This section does not address the DTS Cannery Campus' one-time installation/de-installation charges or phone company one-time installation/de-installation charges. The DTS Cannery Campus' one-time charges are addressed in Cost Centers 252 through 261. Vendor one-time charges are billed as direct pass-through charges under Cost Center 176 and are based upon current vendor pricing. It should be noted that when circuits are shared between customers, the network charges are to be divided or shared (based on percent of CIR allocation).

INVOICE CATEGORIES associated with COST CENTER 272:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Circuit Type</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8510	NETWORK ACCESS CHARGES	9.6 Kb	Circuit	\$250.00	272
8510	NETWORK ACCESS CHARGES	19.2 Kb	Circuit	\$500.00	272
8510	NETWORK ACCESS CHARGES	56 Kb	Circuit	\$600.00	272
8510	NETWORK ACCESS CHARGES	T1	Circuit	\$875.00	272
8510	NETWORK ACCESS CHARGES	T3	Circuit	\$3,750.00	272
8510	NETWORK ACCESS CHARGES	LAN CONTROLLER	Controller	\$225.00	272
8510	NETWORK ACCESS CHARGES	DIALUP	Circuit	\$75.00	272
8510	NETWORK ACCESS CHARGES	ISDN Backup 56K w/ FRAD	Circuit	\$403.00	272
8510	NETWORK ACCESS CHARGES	ISDN Backup 56K w/ ROUTER	Circuit	\$590.00	272
8510	NETWORK ACCESS CHARGES	ISDN Backup 128K w/ ROUTER	Circuit	\$880.00	272

NETWORK ACCESS CHARGES are as follows:

**For ADN Circuits:**

<b>Bandwidth / Speed</b>	<b>Access Charge</b>
56 Kb	\$600.00
T1	\$875.00
T3	\$3,750.00
LAN-Attached Controller	\$225.00

**For FRAME RELAY CIRCUIT with FRAD/1721 Router:**

<b>Cir</b>	<b>Access Charge</b>
0 – 8 K	\$250.00
9 – 20 K	\$500.00
21 – 56 K	\$600.00
LAN-Attached Controller	\$225.00

**For FRAME RELAY CIRCUIT with ROUTER:**

<b>Frame Relay Port</b>	<b>Access Charge</b>
56 Kb	\$600.00
T1	\$875.00
T3	\$3,750.00
LAN-Attached Controller	\$225.00

**For Asynchronous Transfer Mode (ATM):**

<b>Bandwidth / Speed</b>	<b>Access Charge</b>
T3	\$3,750.00

**For Dialup:**

<b>Circuit</b>	<b>Access Charge</b>
Dialup	\$75.00

**For ISDN Backup Circuits**

<b>Bandwidth/Speed</b>	<b>Access Charge</b>
56 Kb with FRAD/1721 Router	\$403.00
56 Kb with Router	\$590.00
128Kb with Router	\$880.00

***COST CENTER 274 – COMMUNICATIONS LINKS***

<b>Attribute</b>	<b>Description</b>
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MEASUREMENT	<p>There is no set unit for communications links charges. Each circuit is evaluated and its charges determined by circuit type and configuration. The type of circuit (i.e. ADN, Frame Relay, DSL, ATM) and bandwidth required determine the communication link charge. The communication link charge for ADN circuits varies dependent upon distance between the nearest point of concentration to the customer site. ADN charges are comprised of monthly local loop charges, vendor minimum line cost, DSU/CSU cost or applicable router costs. Charges for Frame Relay circuits are dependent upon bandwidth and circuit size (i.e. DS0, T1, T3, etc.). Communication link charges include DSU/CSU costs, Vendor Frame Relay port costs, Frame Relay local loop costs and applicable router costs. Charges for private DSL circuits are dependent upon bandwidth (i.e. 128K, 384K, 1544K). The DSL Communication Link charges include DSL port costs, measured business line costs, router costs, and DTS Cannery Campus equipment and support costs. Charges for Internet DSL circuits are dependent upon bandwidth. The Internet Asynchronous DSL Communications Link charges include DSL port costs, measured business line costs, router costs, and DTS Cannery Campus equipment and support costs. The Internet Synchronous DSL Communications Link charges include DSL port costs, DSL router costs, and DTS Cannery Campus equipment and support costs. The Customer Provided ISP for Internet DSL Communications Link charges include the DSL router and DTS Cannery Campus equipment and support costs. Charges for ATM circuits are dependent on bandwidth and circuit size. Communication Link charges include ATM port cost, ATM local loop cost, ATM port adapter, and applicable router charge. The Telco costs for all circuits are for intrastate connectivity only. The Telco cost for interstate connectivity varies and is passed-through to the customer based on actual Telco cost.</p>
CHARGES	<p>Communication link charges are based on the circuit type and configuration. This section does not address the DTS Cannery Campus' one-time installation/de-installation charges. The DTS Cannery Campus' one-time charges are addressed in Cost Centers 252 through 261. Vendor one-time charges are billed as direct pass-through charges under Cost Center 176 and are based upon current vendor pricing. It should be noted that when circuits are shared between customers, the network charges are to be divided or shared (based on percent of CIR allocation).</p>
<p>*ROUTER RATES</p> <p style="text-align: center;">Tiered Or Socialized</p>	<p>Router costs are currently included as a component of the Communication Link Charge. <i>Existing</i> routers are billed at the <u>Socialized Router Rate of \$457.00</u> per month, which includes maintenance with a two hour response time regardless of model type. The Tiered Router Rate restructures the rate for <i>new</i> routers based on the specific router series being utilized by the customer site. Additionally, customers are offered a 4 hour response choice for the maintenance response time on the smaller routers under the Tiered Router Rate structure.</p> <p><b>** Variable Tiered Router Rate:</b></p> <ul style="list-style-type: none"> <li>• 1700 series with 4 hour response = \$77.00/month</li> <li>• 1700 series with 2 hour response = \$105.00/month</li> <li>• 2600 series with 4 hour response = \$176.00/month</li> <li>• 2600 series with 2 hour response = \$210.00/month</li> <li>• 3600 series with 2 hour response = \$631.00/month</li> <li>• 7000 series with 2 hour response = Actual cost/month</li> </ul> <p><b>** Socialized Router Rate:</b></p> <ul style="list-style-type: none"> <li>• \$457.00/month with 2 hour response</li> </ul> <p><u>Note:</u> Due to the wide range in cost, customers requesting the 7000 series routers will not be charged for the router based on a socialized rate, but rather</p>

	based on the actual cost of the router used.				
	This new service level is available for new router installs only. Existing routers cannot be swapped out for the longer response time maintenance. Once existing leases have expired or business needs dictate a change in the router, newly installed routers will be billed at the new Tiered Router Rate.				
**DSU/CSU RATES	DSU costs are included as a component of the Communications Link Charge. Existing DSUs are external DSUs and cost vary dependent upon the circuit bandwidth. Internal DSUs may be utilized for new router installs at non-critical sites located within reasonable distance of service areas and at site locations distant from service area.				
		External DSU Rates:		Internal DSU Rates:	
	Frame: (1 DSU/CSU)				
	56K	\$26.00		\$12.00	
	T-1	\$65.00		\$16.00	
	T-3	\$97.00		\$97.00	
	ADN: (2 DSU/CSU)				
	56K	\$52.00		\$38.00	
	T-1	\$130.00		\$81.00	
	T-3	\$194.00		\$194.00	
	FRAD Replacements 1721 Routers	Motorola has announced the end-of-life of the FRAD equipment. The 1721 router with internal DSU and 4 hour response will be used as the FRAD replacement. Critical FRAD sites will also be replaced with the 1721 router, however, the sites will retain external DSUs and 2 hour response to allow for better monitoring and support.			
			1721 Router	Internal DSU	1721 Router
		4 hour		2 Hour	
56K		\$52.00	\$11.00	\$80.00	\$23.00

COMMUNICATION LINK CHARGES are as follows:

**For ADN circuits *without* router and bandwidth 0 to 56 KB:**

Communication link charge = [(93.20 + DSU/CSU Rate + [1.05 x DISTANCE]) x 1.1447]

Where DISTANCE is the mileage from nearest point of concentration to the customer site and the value of 14.47% represents DTS Cannery Campus administrative overhead.

Quantity	Description	Cost
2	Monthly Local Loop Cost	\$90.00
1	Vendor Minimum Line Cost	\$3.20
	Total Constant	\$93.20
	Modems or DSU/CSU Rate	Variable

**For ADN circuits *with* a Router and bandwidth 0 to 56 KB:**

Communication link charge = [(93.20 + Router Rate + DSU/CSU Rate+ [1.05 x DISTANCE]) x 1.1447]

Where DISTANCE is the mileage from nearest point of concentration to the customer site and the value of 14.47% represents DTS Cannery Campus administrative overhead.

Quantity	Description	Cost
2	Monthly Local Loop Cost	\$90.00
1	Vendor Minimum Line Cost	\$3.20
	Total Constant	\$93.20
	Tiered Router Rate*	Variable**
	Socialized Router Rate*	\$457.00
2	Modem or DSU/CSU Rate	Variable

**For ADN circuits *without* router and bandwidth of T1:**

Communication link charge = [(260.00+ DSU/CSU Rate [5.25 x DISTANCE]) x 1.1447]

Where DISTANCE is the mileage from nearest point of concentration to the customer site and the value of 14.47% represents DTS Cannery Campus administrative overhead.

Quantity	Description	Cost
2	Monthly Local Loop Cost	\$200.00
1	Vendor Minimum Line Cost	\$60.00
	Total Constant	\$260.00
	Modems or DSU/CSU Rate	Variable

**For ADN circuits *with* a Router and bandwidth of T1:**

Communication link charge = [(260.00+ Router Rate + DSU/CSU Rate+ [5.35 x DISTANCE]) x 1.1447]

Where DISTANCE is the mileage from nearest point of concentration to the customer site and the value of 14.47% represents DTS Cannery Campus administrative overhead.

Quantity	Description	Cost
2	Monthly Local Loop Cost	\$200.00
1	Vendor Minimum Line Cost	\$60.00
	Total Constant	\$260.00
	Tiered Router Rate*	Variable**
	Socialized Router Rate*	\$457.00
2	Modem or DSU/CSU Rate	Variable

**For ADN circuits *with* a Router and bandwidth of T3:**

Communication link charge = [(3,269.00 + Router Rate + [37.25 x DISTANCE]) x 1.1447]

Where DISTANCE is the mileage from nearest point of concentration to the customer site and the value of 14.47% represents DTS Cannery Campus administrative overhead.

Quantity	Description	Cost
2	Monthly Local Loop Cost	\$2,665.00
1	Vendor Minimum Line Cost	\$410.00
2	Modems or DSU/CSU Cost	\$194.00



	Total Constant	\$3,269.00
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**For Frame Relay circuits with FRAD and bandwidths of 56 KB:**

(Note: This is no longer available as a new service offering)

Communication Link charge =  $[(153.00 + [\text{CIR} * 3.75 / 4]) * 1.1447]$

Where CIR is a charge for interLATA connectivity of \$3.75 per 4 K CIR. The CIR value (size) can vary from 8 K to 56 K.. The value of 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

The constant was derived from the following items:

Quantity	Description	Cost
1	DSU/CSU Cost	\$26.00
1	FRAD Cost	\$36.00
1	Vendor Frame Relay Port Cost	\$44.00
1	Frame Relay Local Loop Cost	\$47.00
	Total	\$153.00

**For Frame Relay circuits with 1721 Router for FRAD Replacement and bandwidths of 56KB**

Communication link charge =  $[(91.00 + 1721 \text{ Router Rate} + \text{DSU/CSU Rate} + [\text{CIR} * 3.75 / 4]) * 1.1447]$

Where CIR is a charge for interLATA connectivity of \$3.75 per 4 K CIR. The CIR value (size) can vary from 8 K to 56 K. The value 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

The constant was derived from the following items:

Quantity	Description	Cost
1	Vendor Frame Relay Port Cost	\$44.00
1	Frame Relay Local Loop Cost	\$47.00
	Total	\$91.00
1	DSU/CSU Rate	Variable
1	1721 Router Rate	Variable

**For Frame Relay circuits with Router and bandwidth of 56 KB:**

Communication link charge =  $[(91.00 + \text{Router Rate} + \text{DSU/CSU Rate} + [\text{CIR} * 3.75 / 4]) * 1.1447]$

Where CIR is a charge for interLATA connectivity of \$3.75 per 4 K CIR; the CIR value (size) can vary from 8 K to 56 K.. The value of 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

The constant was derived from the following items:

Quantity	Description	Cost
1	Vendor Frame Relay Port Cost	\$44.00

1	Frame Relay Local Loop Cost	\$47.00
	Total Constant	\$91.00
	Tiered Router Rate*	Variable**
	Socialized Router Rate*	\$457.00
1	DSU/CSU Rate	Variable

**For Frame Relay circuits with Router and bandwidth of T1:**

Communications links charge =  $[(393.00 + \text{Router Rate} + \text{DSU/CSU Rate} + [\text{CIR} * \text{CIR Rate}/4]) * 1.1447]$

Where CIR is a charge for interLATA connectivity. The CIR value (size) can vary from 8 K to 1024 K.. The value of 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

\*CIR Rate:

4K to 256K =  $\text{CIR} * 3.75/4$

260K to 768K =  $\text{CIR} * 3.05/4$

772K to 1536K and above =  $\text{CIR} * 2.40/4$

The constant was derived from the following items:

Quantity	Description	Cost
1	Vendor Frame Relay T1 Port Cost	\$297.00
1	Frame Relay T1 Local Loop Cost	\$96.00
	Total Constant	\$393.00
1	Tiered Router Rate*	Variable**
1	Socialized Router Rate*	\$457.00
1	DSU/CSU Rate	Variable

**For Frame Relay circuits with router and bandwidth of T3**

Communication link charge =  $[(3,107.00 + \text{Router Rate} + [\text{CIR} * 2.40/4]) * 1.1447]$

Where CIR is a charge for interLATA connectivity of \$2.40 per 4 K CIR; the CIR value (size) can vary from 1024 K to 28,672 K. The value of 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

The constant was derived from the following items:

Quantity	Description	Cost
1	DSU/CSU Cost	\$97.00
1	Vendor Frame Relay T3 Port Cost	\$1,676.00
1	Frame Relay T3 Local Loop Cost	\$1,334.00
	Total Constant	\$3,107.00
1	Tiered Router Rate*	Variable**
1	Socialized Router Rate*	\$457.00

**For Asynchronous Transfer Mode (ATM) circuit with router and bandwidth of T3**

Communication link charge =  $[(2,203.00 + \text{Router Rate} + [\text{Variable InterLATA Bit Rate}^{**}]) * 1.1447]$

Where the InterLATA Bit Rate (IBR) is a monthly charge for those circuits crossing LATA, Note: There is no IBR charge if the circuit terminates within the LATA from which it originates.

The value of 14.47% represents DTS Cannery Campus administrative overhead.  
The rate is derived from the following items:

Quantity	Description	Cost
1	ATM Port	\$772.00
1	ATM Local Loop	\$1,334.00
1	ATM Port Adapter	\$97.00
	Total Constant	\$2,203.00
1	Tiered Router Rate*	Variable**
1	Socialized Router Rate *	\$457.00

\*\* The InterLATA charges are calculated as follows according to Bandwidth size and type of service. The ATM service has three service offerings Committed Bit Rate (CBR) – Table 1, Variable Bit Rate (VBR) – Table 2, and Unspecified Bit Rate (UBR) – Table 3:

#### ATM INTERLATA CHARGES

Constant Bit Rate (CBR) Table 1		Variable Bit Rate (VBR) Table 2		Unspecified Bit Rate (UBR) Table 3	
Circuit Speed	Recurring	Circuit Speed	Recurring	Circuit Speed	Recurring
128Kbps	\$255.38	128Kbps	\$105.04	128Kbps	\$139.40
256Kbps	\$457.56	256Kbps	\$273.47	256Kbps	\$262.83
384Kbps	\$659.74	384Kbps	\$329.87	384Kbps	\$319.23
512Kbps	\$861.72	512Kbps	\$430.96	512Kbps	\$420.32
768Kbps	\$1,266.28	768Kbps	\$633.14	768Kbps	\$622.50
1.024Kbps	\$1,670.64	1.024Kbps	\$641.65	1.024Kbps	\$631.01
1.344Mbps	\$2,181.41	1.536Mbps	\$948.11	1.536Mbps	\$937.47
1.544 Mbps	\$2,500.64	2.048Mbps	\$1,255.64	2.048Mbps	\$1,245.00
2.048Mbps	\$3,288.07	3.072Mbps	\$1,869.62	3.072Mbps	\$1,858.98
3.072Mbps	\$4,905.50	3.840Mbps	\$2,329.31	3.840Mbps	\$2,318.67
3.840Mbps	\$6,113.25	6.144Mbps	\$3,711.58	6.144Mbps	\$3,700.94
6.144Mbps	\$9,736.52	7.680Mbps	\$4,633.09	7.680Mbps	\$4,622.45
7.680Mbps	\$12,183.95	9.600Mbps	\$5,785.51	9.600Mbps	\$5,774.87
9.600Mbps	\$15,205.99	10.752Mbps	\$6,476.11	10.752Mbps	\$6,465.47
10.752Mbps	\$17,025.60	12.288Mbps	\$7,396.56	12.288Mbps	\$7,385.92
12.288Mbps	\$19,451.75	15.360Mbps	\$9,250.22	15.360Mbps	\$9,228.94
15.360Mbps	\$24,298.72	19.000Mbps	\$11,423.11	19.000Mbps	\$10,390.94
19.000Mbps	\$30,044.85	25.000Mbps	\$15,021.90	22.000Mbps	\$11,135.81
28.000Mbps	\$44,250.00	28.000Mbps	\$16,821.29	28.000Mbps	\$13,721.57
35.800Mbps	\$56,610.12	34.000Mbps	\$20,421.14	34.000Mbps	\$16,669.13
45.000Mbps	\$71,081.88	40.000Mbps	\$24,019.93	40.000Mbps	\$19,169.76
		45.000Mbps	\$24,075.26	45.000Mbps	\$22,894.11

**For Internet Digital Subscriber Line (DSL):**

Attribute	Description
DESCRIPTION	Internet DSL provides a low cost, reliable and secured DSL solution for remote customer connectivity to DTS Cannery Campus. Internet DSL IP would be the alternative for sites not in SBC territory or for customers requesting Internet DSL IP only solutions. The Asynchronous DSL and Synchronous DSL service offerings are dependent on the availability of the Internet Service Provider (ISP). Please Note: The path between the remote and host routers would be out of DTS Cannery Campus control. DTS Cannery Campus does not possess the ability to manage, troubleshoot, contract, or correct any problems associated with the routing through the Internet. Customers are NOT advised to choose this scenario for mission critical sites/data.
COST ALLOCATION	The Internet DSL Rate recovers all components of the cost center resources which include hardware and software, the DTS Cannery Campus infrastructure, personnel, the Internet Service Provider and overhead.
MEASUREMENT	The unit of measurement is per Internet DSL connectivity.
CHARGES	The monthly Internet DSL charge is based the type (Asynchronous or Synchronous) and bandwidth of the DSL connectivity.

**For Internet Asynchronous Digital Subscriber Line (ADSL):**

Communication Link charge = (Variable \* 1.1447)

**Monthly Ongoing Costs:****Communication Link Charge Variables****ADSL 384**

ADSL Charge = (280.70 x 1.1447)

**ADSL 1.5**

ADSL charge + (341.34 x 1.1447)

The value of 14.47% represents DTS Cannery Campus administrative overhead.

The constant values were derived from the following items:

Quantity	Description	ADSL 384	ADSL 1.5
		<b>384-1.5/128</b>	<b>1.5-6/384</b>
1	DSL Port	\$ 85.13	\$ 95.77
1	Measured Business Line	\$ 18.57	\$ 18.57
1	Router	\$ 77.00	\$ 77.00
1	DTS Cannery Campus Equipment/Support	\$100.00	\$150.00
<b>Total</b>		<b>\$280.70</b>	<b>\$341.34</b>

**For Internet Synchronous Digital Subscriber Line (SDSL):**

Communication Link charge = (Variable \* 1.1447)

**Monthly Ongoing Costs:****Communication Link Charge Variables****SDSL 144**

SDSL Charge = (269.00 x 1.1447)

**SDSL 192**

SDSL Charge = (319.00 x 1.1447)

**SDSL 384**

SDSL Charge = (419.00 x 1.1447)

**SDSL 768**

SDSL Charge = (539.00 x 1.1447)

**SDSL 1.1**

SDSL Charge = (699.00 x 1.1447)

**SDSL 1.5**

SDSL Charge = (819.00 x 1.1447)

The value of 14.47% represents DTS Cannery Campus administrative overhead

The constant values were derived from the following items:

Quantity	Description	SDSL 144	SDSL 192	SDSL 384	SDSL 768	SDSL 1.1	SDSL 1.5
1	DSL Port	\$150.00	\$150.00	\$200.00	\$270.00	\$350.00	\$400.00
1	Router	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00
1	DTS Cannery Campus Equip/Support	\$ 50.00	\$100.00	\$150.00	\$200.00	\$250.00	\$350.00
<b>Total</b>		<b>\$269.00</b>	<b>\$319.00</b>	<b>\$419.00</b>	<b>\$539.00</b>	<b>\$669.00</b>	<b>\$819.00</b>

**For Customer Provided ISP for Internet DSL :**

Attribute	Description
DESCRIPTION	Internet DSL provides a low cost, reliable and secured DSL solution for remote customer connectivity to DTS Cannery Campus. For this service offering, the customer secures their own ISP and DTS Cannery Campus provides connectivity. Please Note: The path between the remote and host routers would be out of DTS Cannery Campus control. DTS Cannery Campus does not possess the ability to manage, troubleshoot, contract, or correct any problems associated with the routing through the Internet. Customers are NOT advised to choose this scenario for mission critical sites/data.
COST ALLOCATION	The Internet DSL Rate recovers all components of the cost center resources which include hardware and software, the DTS Cannery Campus infrastructure, personnel, and overhead.
MEASUREMENT	The unit of measurement is per Customer Provided ISP for Internet DSL connectivity.
CHARGES	The monthly Internet DSL charge is based on the type (Asynchronous or Synchronous) and bandwidth of the DSL connectivity.

**For Customer Provided ISP for ADSL:**

Communication Link charge = (Variable \* 1.1447)

**Monthly Ongoing Costs:****Communication Link Charge Variables****ADSL 384**

ADSL Charge = (177.00 x 1.1447)

**ADSL 1.5**

ADSL charge + (227.00 x 1.1447)

The value of 14.47% represents DTS Cannery Campus administrative overhead.

The constant values were derived from the following items:

Quantity	Description	ADSL 384	ADSL 1.5
		<b><u>384-1.5/128</u></b>	<b><u>1.5-6/384</u></b>
1	Router	\$ 77.00	\$ 77.00
1	DTS Cannery Campus Equipment/Support	\$100.00	\$150.00
<b>Total</b>		<b>\$177.00</b>	<b>\$227.00</b>

**For Customer Provided ISP for SDSL:**

Communication Link charge = (Variable \* 1.1447)

**Monthly Ongoing Costs:****Communication Link Charge Variables****SDSL 144**

SDSL Charge = (119.00 x 1.1447)

**SDSL 192**

SDSL Charge = (169.00 x 1.1447)

**SDSL 384**

SDSL Charge = (219.00 x 1.1447)

**SDSL 768**

SDSL Charge = (269.00 x 1.1447)

**SDSL 1.1**

SDSL Charge = (319.00 x 1.1447)

**SDSL 1.5**

SDSL Charge = (419.00 x 1.1447)

The value of 14.47% represents DTS Cannery Campus administrative overhead

The constant values were derived from the following items:

Quantity	Description	SDSL 144	SDSL 192	SDSL 384	SDSL 768	SDSL 1.1	SDSL 1.5
1	Router	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00	\$ 69.00
1	DTS Cannery Campus Equip/Support	\$ 50.00	\$100.00	\$150.00	\$200.00	\$250.00	\$350.00
<b>Total</b>		<b>\$119.00</b>	<b>\$169.00</b>	<b>\$219.00</b>	<b>\$269.00</b>	<b>\$319.00</b>	<b>\$419.00</b>

**For Private Digital Subscriber Line (PDSL):**

Attribute	Description
DESCRIPTION	Private DSL provides a low cost, reliable and secure DSL solution for remote customer connectivity to DTS Cannery Campus. Private DSL services require DSL availability through SBC. The base service offering for DSL Private IP includes an ADSL bundled router with capability to support IP only. The Data Center will provide IP addresses starting at 8 and not to exceed 32.
COST ALLOCATION	The Private DSL Rate recovers all components of the cost center resources which include hardware and software, the DTS Cannery Campus infrastructure, personnel, the DSL service and overhead.
MEASUREMENT	The unit of measurement is per Private DSL connectivity.
CHARGES	The monthly Private DSL charge is based on the bandwidth of the DSL connectivity.

**Monthly Ongoing Costs:**

**Communication Link Charge Variables**

**PDSL 128**

$$\text{DSL Charge} = [290.20 + (\text{CIR} \times \text{CIR Rate}/4)] \times 1.1447$$

**PDSL 384**

$$\text{DSL Charge} = [366.26 + (\text{CIR} \times \text{CIR Rate}/4)] \times 1.1447$$

**PDSL 1.5**

$$\text{DSL Charge} = [549.26 + (\text{CIR} \times \text{CIR Rate}/4)] \times 1.1447$$

CIR is a charge for InterLATA connectivity. The value of 14.47% represents DTS Cannery Campus administrative overhead. Note: there is no CIR charge if the circuit terminates within the LATA from which it originates.

\*CIR Rate:

4K to 256K = CIR \* 3.75/4

260K to 768K = CIR \* 3.05/4

772K to 1536K and above = CIR \* 2.40/4

The constant values were derived from the following items:

Quantity	Description	384K/128K	384K/384K	1.5/384K
		<u>PDSL128</u>	<u>PDSL384</u>	<u>PDSL1.5</u>
1	DSL Port	\$38.31	\$39.37	\$122.37
1	Measured Business Line	\$23.89	\$23.89	\$23.89
1	Router	\$53.00	\$53.00	\$53.00
1	DTS Cannery Campus Equip/Support	\$175.00	\$250.00	\$350.00
	<b>Total</b>	<b>\$290.20</b>	<b>\$366.26</b>	<b>\$549.26</b>

Communication Link charge = (Variable \* 1.1447)

### ***COST CENTER 275 – 3270 DIAL-UP SERVICE***

Attribute	Description
DESCRIPTION	The 3270 dial-up service is a remote synchronous access to the DTS Cannery Campus network via 800 numbers. This type of legacy connection requires a sync modem with either a 3270 controller with XID, a PC with an emulator configured for V.32 and XID, or a V.32 Informer terminal.
COST ALLOCATION	The 3270 dial-up service cost center recovers all components of the cost center resources. Components include hardware/software, personnel, miscellaneous, and overhead.
MEASUREMENT	The unit of measurement for this resource is per minute.
UTILIZATION	The 3270 dial-up utilization is captured and stored in separate utilization files by account code.
CHARGES	The 3270 dial-up charge is the total amount of dial-up minutes multiplied by the rate.

INVOICE CATEGORIES associated with COST CENTER 275:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8559	3270 DIAL-UP SERVICES	Minute	\$0.064	275

### ***COST CENTER 277– DTS Cannery Campus REMOTE LAN DIAL***

Attribute	Description
DESCRIPTION	The DTS Cannery Campus Remote LAN Dial (RLD) service is a remote dial-up access to the DTS Cannery Campus network via 800 numbers. The DTS Cannery Campus RLD utilizes IP only access via any Windows workstation with Windows Dial-Up Networking (DUN).
COST ALLOCATION	The DTS Cannery Campus RLD dial-up service cost center recovers all components of the cost center resources. Components include hardware/software, personnel, miscellaneous, and overhead.
MEASUREMENT	The unit of measurement for this resource is per minute.



UTILIZATION	The HHDS RLD dial-up utilization is captured and stored in separate utilization files by account code.
CHARGES	The HHDS RLD charge is the total amount of dial-up minutes multiplied by the rate.

INVOICE CATEGORIES associated with COST CENTER 277:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8585	DTS Cannery Campus REMOTE LAN DIAL	Minute	\$0.064	277

### ***COST CENTER 278 - REMOTE ACCESS VPN (VIRTUAL PRIVATE NETWORK)***

Attribute	Description
DESCRIPTION	Virtual Private Networks (VPN) are used to establish secure, end-to-end private network connections over a public networking infrastructure. Remote access VPNs enable departments to reduce communication expenses by leveraging the local dial-up infrastructure of Internet service providers. The remote access VPNs allow mobile workers and telecommuters to take advantage of broadband connectivity. The DTS Cannery Campus customers are responsible for obtaining their own Internet services provider.
COST ALLOCATION	The Remote Access VPN service recovers all components of the cost center resources. Components include hardware/software, personnel, miscellaneous, and overhead.
MEASUREMENT	The unit of measurement for this resource is per minute.
UTILIZATION	The Remote Access VPN utilization is captured and stored in separate utilization files stored by account code.
CHARGES	The Remote Access VPN charge is the total amount of remote access VPN minutes multiplied by the rate of \$0.44 per minute.

### ***COST CENTER 278 - SITE-TO-SITE VPN (VIRTUAL PRIVATE NETWORK)***

Attribute	Description
DESCRIPTION	Virtual Private Networks (VPN) is used to establish secure, end-to-end private network connections over a public networking infrastructure. The Site to Site VPN is an alternative for connectivity of non-governmental business partner sites to all portions of the DTS Cannery Campus network. Site to Site VPNs utilize the public Internet or service provider IP networks by employing tunneling and encryption for data privacy and security. The DTS Cannery Campus customer is responsible for obtaining their own Internet service provider. Site to Site VPN allows flexibility for organizations needing connectivity on an intermittent basis. The customer and DTS Cannery Campus will work together to determine the number of hours of access required monthly for the customer's business need.
COST ALLOCATION	The Site to Site VPN Service recovers all components of the cost center resources. Components include hardware/software, personnel, miscellaneous, and overhead.
MEASUREMENT	The unit of measurement for this resource is per hour.
UTILIZATION	Based on hour per month with a minimum of 20 hours per month.
CHARGES	The Site to Site VPN charge is obtained from the hours per month used multiplied by the Site to Site VPN rate.

INVOICE CATEGORIES associated with COST CENTER 278:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8586	REMOTE ACCESS VPN	Minute	\$0.044	278
8630	Site To Site VPN – Option 1 Vendor Device on DTS Cannery Campus Floor	Hour – 20 hour min	\$7.90	278
8631	Site To Site VPN – Option 2 DTS Cannery Campus device on Vendor Floor	Hour – 20 hour min	\$8.75	278
8632	Site To Site VPN – Option 3 Vendor VPN Connects to DTS Cannery Campus VPN	Hour – 20 hour min	\$7.75	278

### ***COST CENTER 285 – FOREIGN CONNECTIVITY SERVICES***

Attribute	Description
DESCRIPTION	Approved non-DTS Cannery Campus network connection to private DTS Cannery Campus resources from networks other than DTS Cannery Campus state agency customers where the foreign network provides the connectivity to the DTS Cannery Campus and the interface between networks occurs at DTS Cannery Campus. These connections may be built over private leased lines or VPN tunnels. This access is exclusively commissioned on behalf of state agencies that are customers of the DTS Cannery Campus; and billing will occur between DTS Cannery Campus and its state government (agency) customers.
COST ALLOCATION	The Foreign Connectivity rate recovers all components of the cost center resources which include hardware and software for DTS Cannery Campus infrastructure, personnel, and overhead.
MEASUREMENT	The unit of measurement is a per Foreign Connection charge.
CHARGES	The monthly Foreign Connectivity charge is based the number and type of non-DTS Cannery Campus network circuits.

INVOICE CATEGORIES associated with COST CENTER 285

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8513/8514	Foreign Connectivity (56Kb)	Connection	\$715.00	285
8513/8514	Foreign Connectivity (T1)	Connection	\$1,000.00	285
8513/8514	Foreign Connectivity (2 - T1s)	Connection	\$1,875.00	285
8513/8514	Foreign Connectivity (8 - T1s)	Connection	\$7,125.00	285
8513/8514	Foreign Connectivity (T-3)	Connection	\$3,915.00	285

#### **For each Foreign Connection:**

[No. of circuits \* circuit type\*\*] + Surcharge\*\*\* x 1.1447]

\*\* Circuit Type Network Access

56K = \$ 600.00

T-1 = \$ 875.00

T-3 + \$3,750.00

\*\*\* Surcharge

T-1 = \$ 10.00

T-3 = \$ 50.00

The value of 14.47% represents the DTS Cannery Campus administrative overhead.

### ***COST CENTER 286 –SHARED FIREWALL/EXTRANET***

<b>Attribute</b>	<b>Description</b>
DESCRIPTION	A firewall is a program or hardware device that is used to filter information coming through the DTS Cannery Campus network by implementing a set of security rules. It blocks and/or permits traffic based on configured rules. The firewall enforces secure access between an internal network and Internet, extranet, or intranet links. The Firewall scales to meet a range of customer requirements and network sizes. Firewall services can be requested by specifying the number of DMZ's (Demilitarized Zones) required by each customer utilizing the service.
COST ALLOCATION	The Firewall/Extranet rate recovers all components of the cost center resources which include hardware and software for the firewall equipment. In addition, this rate recovers costs for DTS Cannery Campus infrastructure, personnel, and overhead. For Extranet connections, additional specialized equipment components may be required in excess of the standard firewall and customization per customer needs. Additional cost may apply as appropriate for specialized Extranet connectivity.
MEASUREMENT	Unit of measurement is a per DMZ charge.
CHARGES	The monthly network charge is based the number of Foreign Connections requested by the client.

INVOICE CATEGORIES associated with COST CENTER 286

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8578/8579	Shared Firewall/Extranet	DMZ	\$423.00	286

### ***COST CENTER 287 – METROPOLITAN AREA NETWORK (MAN)***

<b>Attribute</b>	<b>Description</b>
DESCRIPTION	The MAN is designed to permit the flexible deployment of fast service between downtown Sacramento area facilities. The MAN provides high speed connections in 10 Mbps and 100 Mbps increments that are scalable and compatible with existing architecture. The MAN also provides facility independence at the DTS Cannery Campus and node diversity at the customer premise.
COST ALLOCATION	The MAN rates recover all components of the cost center resources, including fiber maintenance, hardware/software for the OB 8 and Mall Nodes, and connectivity to DTS Cannery Campus. In addition, the rates recover costs for DTS Cannery Campus infrastructure, personnel, and overhead.
MEASUREMENT	The unit of measurement is in 10 Mbps and 100 Mbps connectivity.
CHARGES	The monthly network charge is based on the tiered/socialized router rate and the MAN bandwidth connectivity.

INVOICE CATEGORIES associated with COST CENTER 287

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8582/8583	Sacramento MAN 10 MB tiered router (see CC 274)	Connection	Variable	287
8582/8583	Sacramento MAN 10 MB socialized router	Connection	\$4,469.21	287
8582/8583	Sacramento MAN 100 MB socialized router	Connection	\$13,373.16	287

**10 Mb MAN**

$$([3447.26 + \text{Router Rate}] * 1.1447)$$
**100 Mb MAN**

$$([11,225.68 + \text{Router Rate}] * 1.1447)$$
***COST CENTER 290 – ASSIGNED EQUIPMENT***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	This cost center is used for Telecom hardware and/or software not included in existing standard rates. The hardware and/or software is owned by the DTS Cannery Campus but procured to satisfy unique customer requirements.
MEASUREMENT	The measurement of this resource is based on customer specific configurations.
CHARGES	Charges for Assigned Equipment & Support will include the actual cost of the hardware and/or software monthly maintenance charges, DTS Cannery Campus overhead and monthly technical support as required by the application.

INVOICE CATEGORY associated with COST CENTER 290:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Rate</b>	<b>Cost Center</b>
8515	Assigned Equipment	Device	Monthly cost of hard/software, maintenance, DTS Cannery Campus overhead and technical support	286

***COST CENTER 300 – DISK STORAGE-SHARED***

<b>Attribute</b>	<b>Description</b>
COST ALLOCATION	The Disk Storage cost center recovers all components of the cost center resources. Components include hardware, software, personnel, and miscellaneous. Disk storage hardware is divided 50/50 between Disk Storage cost center 300 and Disk Utilization cost center 016. Software includes the associated software necessary to manage DASD resources.
MEASUREMENT	The unit of measurement for this resource is per gigabyte per month.
UTILIZATION	Randomly, and at least once a month, a snapshot is taken of disk VTOCs (Volume Table of Contents) and the information is written to an OS file. The MICS VTOC Catalog Activity component writes this information to a database. The tracks are considered to be a monthly allocation and customers are billed for all tracks allocated to them at the time the snapshot is taken.
CHARGES	The charge is the number of Gigabytes multiplied by the rate.

INVOICE CATEGORY associated with COST CENTER 300:

<b>Invoice Category</b>	<b>Invoice Category Definition</b>	<b>Unit</b>	<b>Monthly Rate</b>	<b>Cost Center</b>
7202	Disk Storage-Shared	Gigabyte	\$18.35	300

***ROLL-UP COST CENTER 143 (associated with 300) – ADABAS DISK STORAGE***

Attribute	Description
COST ALLOCATION	ADABAS disk storage costs are not separate from disk storage expenses (Cost Center 300). The expenses of the ADABAS disk storage are part of overall total disk storage expenses. This cost center has been set up to enable the DTS Cannery Campus to track ADABAS disk storage utilization separately.
MEASUREMENT	The unit of measurement for this resource is per gigabyte per month.
CHARGES	The DTS Cannery Campus does not have separate specific ADABAS disk storage rates for each storage device type. The DTS Cannery Campus has a single disk storage rate. ADABAS disk storage utilization is captured and recorded in an external billing file to be processed by the DTS Cannery Campus' MICS billing system. The disk storage charge is the total amount of ADABAS 3390 Gigabytes multiplied by current disk storage rate.

INVOICE CATEGORY associated with COST CENTER 143:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
7211	ADABAS Disk Storage	Gigabyte	\$18.35	143

### ***COST CENTER 301 – DISK STORAGE-SERVER***

Attribute	Description
COST ALLOCATION	The Disk Storage cost center recovers all components of the cost center resources. Components include hardware, software, personnel, and miscellaneous. Software includes the associated software necessary to manage DASD resources, backup, and recovery.
MEASUREMENT	The unit of measurement for this resource is per gigabyte per month.
UTILIZATION	Utilization is based on delivered storage requested by the customer in nine gigabyte segments.
CHARGES	The charge is the number of Gigabytes multiplied by the rate.

INVOICE CATEGORY associated with COST CENTER 300:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
7206	Disk Storage-Server	Gigabyte	\$18.35	301

### ***COST CENTER 390 – DISK STORAGE-DEDICATED***

Attribute	Description
COST ALLOCATION	The disk storage-dedicated cost center recovers all components of the cost center resources for DASD volumes assigned to a single customer department for their exclusive use. Components include hardware, software, personnel, and miscellaneous expenses.
MEASUREMENT	The unit of measurement for this resource is per volume per month.
UTILIZATION	A SAS database (Dedicated Disk Packs) is updated whenever a DASD volume is requested to be assigned or unassigned to a customer department. The MICS billing process uses this data to charge the customer department. The tracks are considered to be a monthly allocation, and customers are billed for all tracks on each volume/pack assigned to them.

INVOICE CATEGORY associated with COST CENTER 390:

Invoice Category	Invoice Category Definition	Unit	Monthly Rate	Cost Center
7203	Disk Storage-Dedicated	Volume	\$52.08	390

### ***COST CENTER 500 – FORMS***

Attribute	Description
COST ALLOCATION	The cost of each type of a box of forms is divided by the number of pages in the box, giving the price per form.
MEASUREMENT	The form rate is per page.
UTILIZATION	Utilization is developed with data captured by the SMF monitor using an SMF type 6 record which records the number of lines printed per job and skip to channel commands. Charges are developed using the following algorithm:  <ol style="list-style-type: none"> <li>1. Using skip to channel commands as a top of form indicator giving the number of pages printed.</li> <li>2. A maximum number of lines per page is established for each form and this number is divided into the total lines giving the number of pages.</li> </ol>
CHARGES	The option is chosen with the most number of pages printed. This record is passed to the MICS billing system where the records are formatted, summarized, and charged for at the appropriate forms rate per page.

### ***COST CENTER 605 – SAS SOFTWARE VLPA***

Attribute	Description
COST ALLOCATION	This cost center was created to specifically monitor SAS software Volume License Purchase Agreement (VLPA) purchased for our customers. It was developed for the purpose of recovering funds for providing SAS software to DTS Cannery Campus customers via an Enterprise license agreement. Expenses are treated as pass through and billed directly to customers.
CHARGES	Charges are billed via RFA or Memobill and are subject to a five percent administration fee, not to exceed \$850.00.

### ***COST CENTER 850 - COURIER***

Attribute	Description
COST ALLOCATION	Resource components allocated to this cost center are the courier service contract, personnel, and overhead. Courier services are contracted services to transport input/output between the DTS Cannery Campus and the user community.
MEASUREMENT	The rate for this service is per drop. A drop is defined as a courier trip from the DTS Cannery Campus to a user(s) location and back to the DTS Cannery Campus.
UTILIZATION	The utilization reported is the number of drops in a calendar month made to a specific customer.
CHARGES	Charges are calculated based on the number of monthly drops made by the courier to each customer location and are billed through the MICS billing system.

INVOICE CATEGORY associated with COST CENTER 850:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8529	Courier Charges	Drop	\$8.20	850

### ***COST CENTER 851 – TAPE STORAGE***

Attribute	Description
COST ALLOCATION	Tape storage charges recover all components of cost center resources. Components include hardware, software, personnel, and overhead.
MEASUREMENT	The measurement for this service is per tape. Tape is a physical volume (reel or cartridge) upon which resides a file(s).
UTILIZATION	The Computer Associates software package CA-One, is used to manage the tape library system. A tape is dynamically added to the Tape Management Master File (TMMF) when a job requests a tape file. Each time a scratch tape is mounted, MVS reads the volume serial number. MVS passes control to CA-One before any processing is done to the tape. CA-One checks the volume serial number (volser) to insure the tape is a valid scratch tape. It also looks at the DSN from the JCL (or defaults) and writes this information to the TMMF plus the expiration date, DCBs, etc. Once CA-One has written the record to TMMF, control is passed back to MVS. After the file is closed, block counts are also written to the TMMF record for that tape.
CHARGES	Randomly, once a month, each active tape record is written to a snapshot file. This snapshot file is sorted first by department and then by account code. Customers are billed for all tapes present at the time this snapshot is taken. In addition, users will be billed for dedicated scratch tapes at the same rate and at the account code level.

INVOICE CATEGORY associated with COST CENTER 851:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8501	TAPE STORAGE-LOCAL	Tape	\$0.51	851

### ***COST CENTER 853 – TAPE STORAGE OFFSITE***

Attribute	Description
COST ALLOCATION	Tape storage offsite charges recover all components of cost center resources. Components include personnel and overhead.
MEASUREMENT	Tape is a physical volume (reel or cartridge) upon which resides a file(s). Multiple files on a tape will be for the same user and charged for as a single volume. This cost center rate is per tape.
UTILIZATION	The Computer Associates software package, CA-One, is used to manage the tape library system. A tape is dynamically added to the TMMF when a job requests a tape file. Each time a scratch tape is mounted, MVS reads the volser. MVS passes control to CA-One before any processing is done to the tape. CA-One checks the volser to insure the tape is a valid scratch tape. It also looks at the DSN from the JCL (or defaults) and writes this information to the TMMF plus the expiration date, DCBs, etc. Once CA-One has written the record to TMMF, control is passed back to MVS. After the file is closed, block counts are also written to the TMMF record for that tape.
CHARGES	Randomly, once a month, snapshot file is sorted by department, account code, and outcode = Archive (ARCH) and Disaster Offsite Storage Location (DOSL). Tapes are archived if there hasn't been any activity for 18 months and the

	expiration date is 18 months in the future. There can also be a year-year criterion for archive. Disaster offsite storage is requested by the user.
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Users having DOSL tapes that require offsite storage will be charged a local storage rate in addition to the offsite storage rate. Users are billed for all tapes present at the time the snapshot is taken.

INVOICE CATEGORY associated with COST CENTER 853:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8502	TAPE STORAGE-OFFSITE	Tape	\$1.38	853

### ***COST CENTER 856 – CUSTOMER TAPE PURCHASE***

Attribute	Description
COST ALLOCATION	This cost center was set up to track tape purchases. This was due to the fact that some DTS Cannery Campus customers were withdrawing tapes, losing tapes, and never returning them to the DTS Cannery Campus' tape library. This resulted in empty tape slots and unusable tape volser.
MEASUREMENT	The unit of measurement is per tape.
CHARGES	A tape becomes eligible to become a tape purchase when a tape has not been returned for 180 days. The users of the tape are billed for a missing or lost tape. Once a tape has been sold, a new tape is made available with the previously sold volser.

INVOICE CATEGORY associated with COST CENTER 856:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8503	TAPE PURCHASE CHARGES	Tape	\$15.00	856

### ***COST CENTER 888 - INDIRECT***

Attribute	Description
COST ALLOCATION	This cost center was established to record indirect/overhead expenses. According to the OMB Circular A-87 – Attachment E “Indirect Cost rate is a device for determining in a reasonable manner the proportion of indirect cost each program (customer) should bear. It is the ratio (expressed as a percentage) of the indirect costs to a direct cost base.”
CHARGES	The indirect/overhead expenses are posted from the DTS Cannery Campus' expenditure files. Costs that cannot be assigned directly to a specific cost center include ongoing administrative expenses necessary for DTS Cannery Campus to function. The overhead rate is obtained when all the indirect cost center expenses are divided by the total 'spreadable' cost centers. The current overhead rate is 14.47%.

INVOICE CATEGORY associated with COST CENTER 888:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8530	Indirect		14.47%	888

### ***COST CENTER 900 – CONSULTING SERVICES***



Attribute	Description
COST ALLOCATION	This cost center was set up to hold and monitor DTS Cannery Campus consulting charges to DTS Cannery Campus customers.
MEASUREMENT	The unit of measurement is per hour of staff time.
CHARGES	The customer is billed using the Request for Adjustment (RFA) process for the number of staff hours, multiplied by the hourly consulting rate.

INVOICE CATEGORY associated with COST CENTER 900:

Invoice Category	Invoice Category Definition	Unit	Rate	Cost Center
8531	Consulting Charges	Hour	\$75.00	900

### III. INVOICING - BILLING

#### ***THE MVS INTEGRATED CONTROL SYSTEM (MICS) BILLING SYSTEM***

The DTS Cannery Campus uses the MICS billing system to accumulate billing data and to produce customer invoices. The invoice data is collected from SMF and other external billing files. The MICS job BATJOB collects information on resource consumption at the job level. Job utilization counts are multiplied by the appropriate rate to get the costing information. A daily database is built from this information. The daily information is compiled to build a monthly database. The monthly information is sorted at the account code level and used to create customer invoices.

#### ***BILLING INVOICE COMPONENTS***

The invoice package is made up of the following components:

1. Memorandum
2. Invoice Summary
3. Monthly invoice by:
  - A. Department code level
  - B. Account code level
4. Invoice credit supplement report
5. Summary of CICS charges by:
  - A. Account code
  - B. Region
6. Summary of IDMS charges by account code
7. Summary of ADABAS charges
8. Online microfiche processing
9. Dedicated Network Access charges by account code
10. Dedicated communications links charges by account code
11. Dedicated communications charges by account code
12. Dedicated frame relay communications charges by account code
13. Dedicated hardware back billing charges from prior FY to current FY by account code
14. Dedicated hardware back billing charges by account code
15. Dedicated hardware charges by account code
16. Dedicated software back billing charges by account code
17. Dedicated software charges by account code
18. Dedicated hardware charges
19. Dedicated software charges
20. Summary of Network Access charges by account code

21. Summary of Non-ADN Access charges by account code
22. Summary of communication circuit charges by account code
23. Summary of Non-AND communication link charges by account code
24. 3270 Dial-up detail charges
25. DTS Cannery Campus remote LAN dial-up charges
26. DTS Cannery Campus remote access VPN usage charges
27. Summary of Foreign Connectivity charges by account code
28. Summary of Firewall/Extranet Connectivity charges by account code
29. Summary of Metropolitan Area Network charges by account code
30. Internet Services billing
31. Summary of Server charges
32. Summary accounting
33. Debit listing
34. DTS Cannery Campus Network Install charges
35. RFA Report

## ***BILLING INVOICE REVIEW***

The customer invoices are subject to a quality control check for reasonableness, accuracy, and completeness. The reviewed components are assembled into individual invoice packages for each customer and sent out by the tenth working day of each month. In addition, some DTS Cannery Campus customers now receive their output via online flat file.

## ***BILLING ADJUSTMENTS - RFAs***

### **Description**

An RFA is a one time adjustment to a current fiscal year customer's invoice. RFAs can be either debits (charges) or credits (reimbursements) to a customer's current fiscal year invoice. RFAs are processed monthly through the MICS billing system. The RFA process is the MICS billing system mechanism for changing (adjusting) a customer's current fiscal year monthly MICS invoice associated with the customer's current fiscal year interagency agreement (IAA). RFAs are prepared only by DTS Cannery Campus staff.

### **How to request an adjustment**

Customers with questions about invoice charges should contact their customer service representative or Rates & Cost Recovery program staff.

### **Uses for RFAs**

**DEBITS:** Used to add charges to a customers current fiscal year monthly invoice related to the customer's current fiscal year IAA.

- Corrections to a customer's current fiscal year invoice for amounts not previously charged to the customer's prior monthly current fiscal year invoices requested by a DTS Cannery Campus employee or customer.
- Charges to a specific customer for non-system resources such as outright purchases (OP) of items associated with Dedicated Cost Centers (CC):
- Charges to a specific customer for specific project billings
- Charges to specific customers for telephone company services

- Professional services contracted for a specific customer through DTS Cannery Campus
- User training charges
- Consulting services performed by DTS Cannery Campus for a specific customer

**CREDITS:** Used to subtract reimbursements to a customer's current fiscal year monthly invoice related to the customer's current fiscal year IAA.

- Corrections to a customer's current fiscal year invoice for a prior monthly current fiscal year invoiced amount requested by a customer or a DTS Cannery Campus employee.
- Customer rebates

RFA debits and credits appear in the customer's monthly (MICS) user invoice package. The RFA credits are located in the Invoice Credit Supplement Report and the RFA debits are located in the appropriate service section. RFAs can only be accepted for the current fiscal year.

#### ***BILLING ADJUSTMENTS – BACK BILLING for PRIOR FISCAL YEARS***

On a monthly basis the billing system generates back bill reports that summarize, by customer department, the equipment that has been added to the DTS Cannery Campus Hardware/Software file. These equipment records may have effective dates that are several months in arrears because the DTS Cannery Campus requires receipt of the vendor's notice of installation before customers are invoiced.

Charges pertaining to prior fiscal year(s) are billed to the customer departments via the Memo Bill Process based upon the back bill report. Any charges attributable to current fiscal years will appear on customer's current monthly invoices.

#### ***BILLING ADJUSTMENTS – INVOICE CANCELLATION***

Customer monthly invoices will be cancelled if the cumulative total for all services provided is less than \$5.00. These invoices will not be mailed and the customer will not be responsible for payment.

#### ***CUSTOMER USER CODES & ACCOUNT CODES***

##### **USER CODES**

Department User Codes are the two character identifier that is assigned to each customer department.

County Departments and the Superior Courts are assigned a three character user code.

The user code is incorporated as a high level qualifier to catalog data sets, track customer resource utilization, and produce billing invoices.

All department User Codes are assigned by the DTS Cannery Campus' Rates & Cost Recovery Program staff.

Departments who wish to become new customers of the DTS Cannery Campus should contact the Customer Services Division at 916-454-7225.

The Customer Services staff will initiate the new customer process. The process results in the assignment of a Department user code, modification of the DTS Cannery Campus billing mechanisms, and creation of Customer Service System (CSS) access.

## ACCOUNT CODES

Account codes are developed by the customer departments as a method to identify and track internal utilization of the services provided by the DTS Cannery Campus. The account codes could be configured to define internal users, projects, locations, types of services, or any other qualifier determined necessary by the individual Departments.

Account codes must begin with the DTS Cannery Campus assigned User Code.

The account codes contain ten total characters and must begin with the assigned user code.

The remaining eight characters (seven characters for County Departments and Superior Courts) may be any combination of numbers and letters as determined by the individual Department. The account code structure is not validated by DTS Cannery Campus and is maintained by the customer department.

## ***ADMINISTRATIVE SERVICES CHARGE***

All customer purchases of hardware, software, telephone company charges and consulting procured at the request of a specific customer, and are used in direct or pass-through connection with the DTS Cannery Campus will be assessed an administrative handling charge. In addition, this administrative handling charge will apply to any requests for billing outside the customers' IAAs. The administrative charge is five percent of purchase up to a maximum of \$850.

## ***DGS FEES***

All customer purchase requests or contracts that require approval/review from Department of General Services (DGS) are subject to a DGS fee which is deducted directly from DTS Cannery Campus' account. This fee is then recovered through billing the customer department that benefited from the DGS service.